

The
"Simplex"
Navigation
&
Avigation
Tables



J. Carlos Pinto

D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep
1	1.0	0.2	61	59.4	13.7	121	117.9	27.2	181	176.4	40.7	241	234.8	54.2	301	293.3	67.7
2	1.9	0.4	62	60.4	13.9	122	118.9	27.4	182	177.3	40.9	242	235.8	54.4	302	294.3	67.9
3	2.9	0.7	63	61.4	14.2	123	119.8	27.7	183	178.3	41.2	243	236.8	54.7	303	295.2	68.2
4	3.9	0.9	64	62.4	14.4	124	120.8	27.9	184	179.3	41.4	244	237.7	54.9	304	296.2	68.4
5	4.9	1.1	65	63.3	14.6	125	121.8	28.1	185	180.3	41.6	245	238.7	55.1	305	297.2	68.6
6	5.8	1.3	66	64.3	14.8	126	122.8	28.3	186	181.2	41.8	246	239.7	55.3	306	298.2	68.8
7	6.8	1.6	67	65.3	15.1	127	123.7	28.6	187	182.2	42.1	247	240.7	55.6	307	299.1	69.1
8	7.8	1.8	68	66.3	15.3	128	124.7	28.8	188	183.2	42.3	248	241.6	55.8	308	300.1	69.3
9	8.8	2.0	69	67.2	15.5	129	125.7	29.0	189	184.2	42.5	249	242.6	56.0	309	301.1	69.5
10	9.7	2.2	70	68.2	15.7	130	126.7	29.2	190	185.1	42.7	250	243.6	56.2	310	302.1	69.7
11	10.7	2.5	71	69.2	16.0	131	127.6	29.5	191	186.1	43.0	251	244.6	56.5	311	303.0	70.0
12	11.7	2.7	72	70.2	16.2	132	128.6	29.7	192	187.1	43.2	252	245.5	56.7	312	304.0	70.2
13	12.7	2.9	73	71.1	16.4	133	129.6	29.9	193	188.1	43.4	253	246.5	56.9	313	305.0	70.4
14	13.6	3.1	74	72.1	16.6	134	130.6	30.1	194	189.0	43.6	254	247.5	57.1	314	306.0	70.6
15	14.6	3.4	75	73.1	16.9	135	131.5	30.4	195	190.0	43.9	255	248.5	57.4	315	306.9	70.9
16	15.6	3.6	76	74.1	17.1	136	132.5	30.6	196	191.0	44.1	256	249.4	57.6	316	307.9	71.1
17	16.6	3.8	77	75.0	17.3	137	133.5	30.8	197	192.0	44.3	257	250.4	57.8	317	308.9	71.3
18	17.5	4.0	78	76.0	17.5	138	134.5	31.0	198	192.9	44.5	258	251.4	58.0	318	309.8	71.5
19	18.5	4.3	79	77.0	17.8	139	135.4	31.3	199	193.9	44.8	259	252.4	58.3	319	310.8	71.8
20	19.5	4.5	80	77.9	18.0	140	136.4	31.5	200	194.9	45.0	260	253.3	58.5	320	311.8	72.0
21	20.5	4.7	81	78.9	18.2	141	137.4	31.7	201	195.8	45.2	261	254.3	58.7	321	312.8	72.2
22	21.4	4.9	82	79.8	18.4	142	138.4	31.9	202	196.8	45.4	262	255.3	58.9	322	313.7	72.4
23	22.4	5.2	83	80.9	18.7	143	139.3	32.2	203	197.8	45.7	263	256.3	59.2	323	314.7	72.7
24	23.4	5.4	84	81.8	18.9	144	140.3	32.4	204	198.8	45.9	264	257.2	59.4	324	315.7	72.9
25	24.4	5.6	85	82.8	19.1	145	141.3	32.6	205	199.7	46.1	265	258.2	59.6	325	316.7	73.1
26	25.3	5.8	86	83.8	19.3	146	142.3	32.8	206	200.7	46.3	266	259.2	59.8	326	317.6	73.3
27	26.3	6.1	87	84.8	19.6	147	143.2	33.1	207	201.7	46.6	267	260.2	60.1	327	318.6	73.6
28	27.3	6.3	88	85.7	19.8	148	144.2	33.3	208	202.7	46.8	268	261.1	60.3	328	319.6	73.8
29	28.3	6.5	89	86.7	20.0	149	145.2	33.5	209	203.6	47.0	269	262.1	60.5	329	320.6	74.0
30	29.2	6.7	90	87.7	20.2	150	146.2	33.7	210	204.6	47.2	270	263.1	60.7	330	321.5	74.2
31	30.2	7.0	91	88.7	20.5	151	147.1	34.0	211	205.6	47.5	271	264.1	61.0	331	322.5	74.5
32	31.2	7.2	92	89.6	20.7	152	148.1	34.2	212	206.6	47.7	272	265.0	61.2	332	323.5	74.7
33	32.2	7.4	93	90.6	20.9	153	149.1	34.4	213	207.5	47.9	273	266.0	61.4	333	324.5	74.9
34	33.1	7.6	94	91.6	21.1	154	150.1	34.6	214	208.5	48.1	274	267.0	61.6	334	325.4	75.1
35	34.1	7.9	95	92.6	21.4	155	151.0	34.9	215	209.5	48.4	275	268.0	61.9	335	326.4	75.4
36	35.1	8.1	96	93.5	21.6	156	152.0	35.1	216	210.5	48.6	276	268.9	62.1	336	327.4	75.6
37	36.1	8.3	97	94.5	21.8	157	153.0	35.3	217	211.4	48.8	277	269.9	62.3	337	328.4	75.8
38	37.0	8.5	98	95.5	22.0	158	154.0	35.5	218	212.4	49.0	278	270.9	62.5	338	329.3	76.0
39	38.0	8.8	99	96.5	22.3	159	154.9	35.8	219	213.4	49.3	279	271.8	62.8	339	330.3	76.3
40	39.0	9.0	100	97.4	22.5	160	155.9	36.0	220	214.4	49.5	280	272.8	63.0	340	331.3	76.5
41	39.9	9.2	101	98.4	22.7	161	156.9	36.2	221	215.3	49.7	281	273.8	63.2	341	332.3	76.7
42	40.9	9.4	102	99.4	22.9	162	157.8	36.4	222	216.3	49.9	282	274.8	63.4	342	333.2	76.9
43	41.9	9.7	103	100.4	23.2	163	158.8	36.7	223	217.3	50.2	283	275.7	63.7	343	334.2	77.2
44	42.9	9.9	104	101.3	23.4	164	159.8	36.9	224	218.3	50.4	284	276.7	63.9	344	335.2	77.4
45	43.8	10.1	105	102.3	23.6	165	160.8	37.1	225	219.2	50.6	285	277.7	64.1	345	336.2	77.6
46	44.8	10.3	106	103.3	23.8	166	161.7	37.3	226	220.2	50.8	286	278.7	64.3	346	337.1	77.8
47	45.8	10.6	107	104.3	24.1	167	162.7	37.6	227	221.2	51.1	287	279.6	64.6	347	338.1	78.1
48	46.8	10.8	108	105.2	24.3	168	163.7	37.8	228	222.2	51.3	288	280.6	64.8	348	339.1	78.3
49	47.7	11.0	109	106.2	24.5	169	164.7	38.0	229	223.1	51.5	289	281.6	65.0	349	340.1	78.5
50	48.7	11.2	110	107.2	24.7	170	165.6	38.2	230	224.1	51.7	290	282.6	65.2	350	341.0	78.7
51	49.7	11.5	111	108.2	25.0	171	166.6	38.5	231	225.1	52.0	291	283.5	65.5	351	342.0	79.0
52	50.7	11.7	112	109.1	25.2	172	167.6	38.7	232	226.1	52.2	292	284.5	65.7	352	343.0	79.2
53	51.6	11.9	113	110.1	25.4	173	168.6	38.9	233	227.0	52.4	293	285.5	65.9	353	344.0	79.4
54	52.6	12.1	114	111.1	25.6	174	169.5	39.1	234	228.0	52.6	294	286.5	66.1	354	344.9	79.6
55	53.6	12.4	115	112.1	25.9	175	170.5	39.4	235	229.0	52.9	295	287.4	66.4	355	345.9	79.9
56	54.6	12.6	116	113.0	26.1	176	171.5	39.6	236	230.0	53.1	296	288.4	66.6	356	346.9	80.1
57	55.5	12.8	117	114.0	26.3	177	172.5	39.8	237	230.9	53.3	297	289.4	66.8	357	347.9	80.3
58	56.5	13.0	118	115.0	26.5	178	173.4	40.0	238	231.9	53.5	298	290.4	67.0	358	348.8	80.5
59	57.5	13.3	119	116.0	26.8	179	174.4	40.3	239	232.9	53.8	299	291.3	67.3	359	349.8	80.8
60	58.5	13.5	120	116.9	27.0	180	175.4	40.5	240	233.8	54.0	300	292.3	67.5	360	350.8	81.0
D	Dep	Δl	D	Dep	Δl	D	Dep	Δl	D	Dep	Δl	D	Dep	Δl	D	Dep	Δl

r=0.51

77°

283° 77°
257° 103°

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	351.7	81.2	421	410.2	94.7	481	468.7	108.2	541	527.1	121.7	601	585.6	135.2	661	644.1	148.7
362	352.7	81.4	422	411.2	94.9	482	469.6	108.4	542	528.1	121.9	602	586.6	135.4	662	645.0	148.9
363	353.7	81.7	423	412.2	95.2	483	470.6	108.7	543	529.1	122.1	603	587.5	135.6	663	646.0	149.1
364	354.7	81.9	424	413.1	95.4	484	471.6	108.9	544	530.1	122.4	604	588.5	135.9	664	647.0	149.4
365	355.6	82.1	425	414.1	95.6	485	472.6	109.1	545	531.0	122.6	605	589.5	136.1	665	648.0	149.6
366	356.6	82.3	426	415.1	95.8	486	473.5	109.3	546	532.0	122.8	606	590.5	136.3	666	648.9	149.8
367	357.6	82.6	427	416.1	96.1	487	474.5	109.6	547	533.0	123.0	607	591.4	136.5	667	649.9	150.0
368	358.6	82.8	428	417.0	96.3	488	475.5	109.8	548	534.0	123.3	608	592.4	136.8	668	650.9	150.3
369	359.5	83.0	429	418.0	96.5	489	476.5	110.0	549	534.9	123.5	609	593.4	137.0	669	651.9	150.5
370	360.5	83.2	430	419.0	96.7	490	477.4	110.2	550	535.9	123.7	610	594.4	137.2	670	652.8	150.7
371	361.5	83.5	431	420.0	97.0	491	478.4	110.5	551	536.9	123.9	611	595.3	137.4	671	653.8	150.9
372	362.5	83.7	432	420.9	97.2	492	479.4	110.7	552	537.9	124.2	612	596.3	137.7	672	654.8	151.2
373	363.4	83.9	433	421.9	97.4	493	480.4	110.9	553	538.8	124.4	613	597.3	137.9	673	655.8	151.4
374	364.4	84.1	434	422.9	97.6	494	481.3	111.1	554	539.8	124.6	614	598.3	138.1	674	656.7	151.6
375	365.4	84.4	435	423.9	97.9	495	482.3	111.4	555	540.8	124.8	615	599.2	138.3	675	657.7	151.8
376	366.4	84.6	436	424.8	98.1	496	483.3	111.6	556	541.7	125.1	616	600.2	138.6	676	658.7	152.1
377	367.3	84.8	437	425.8	98.3	497	484.3	111.8	557	542.7	125.3	617	601.2	138.8	677	659.6	152.3
378	368.3	85.0	438	426.8	98.5	498	485.2	112.0	558	543.7	125.5	618	602.2	139.0	678	660.6	152.5
379	369.3	85.3	439	427.7	98.8	499	486.2	112.3	559	544.7	125.7	619	603.1	139.2	679	661.6	152.7
380	370.3	85.5	440	428.7	99.0	500	487.2	112.5	560	545.6	126.0	620	604.1	139.5	680	662.6	153.0
381	371.2	85.7	441	429.7	99.2	501	488.2	112.7	561	546.6	126.2	621	605.1	139.7	681	663.5	153.2
382	372.2	85.9	442	430.7	99.4	502	489.1	112.9	562	547.6	126.4	622	606.1	139.9	682	664.5	153.4
383	373.2	86.2	443	431.6	99.7	503	490.1	113.2	563	548.6	126.6	623	607.0	140.1	683	665.5	153.6
384	374.2	86.4	444	432.6	99.9	504	491.1	113.4	564	549.5	126.9	624	608.0	140.4	684	666.5	153.9
385	375.1	86.6	445	433.6	100.1	505	492.1	113.6	565	550.5	127.1	625	609.0	140.6	685	667.4	154.1
386	376.1	86.8	446	434.6	100.3	506	493.0	113.8	566	551.5	127.3	626	610.0	140.8	686	668.4	154.3
387	377.1	87.1	447	435.5	100.6	507	494.0	114.1	567	552.5	127.5	627	610.9	141.0	687	669.4	154.5
388	378.1	87.3	448	436.5	100.8	508	495.0	114.3	568	553.4	127.8	628	611.9	141.3	688	670.4	154.8
389	379.0	87.5	449	437.5	101.0	509	496.0	114.5	569	554.4	128.0	629	612.9	141.5	689	671.3	155.0
390	380.0	87.7	450	438.5	101.2	510	496.9	114.7	570	555.4	128.2	630	613.9	141.7	690	672.3	155.2
391	381.0	88.0	451	439.4	101.5	511	497.9	115.0	571	556.4	128.4	631	614.8	141.9	691	673.3	155.4
392	382.0	88.2	452	440.4	101.7	512	498.9	115.2	572	557.3	128.7	632	615.8	142.2	692	674.3	155.7
393	382.9	88.4	453	441.4	101.9	513	499.9	115.4	573	558.3	128.9	633	616.8	142.4	693	675.2	155.9
394	383.8	88.6	454	442.4	102.1	514	500.8	115.6	574	559.3	129.1	634	617.8	142.6	694	676.2	156.1
395	384.9	88.9	455	443.3	102.4	515	501.8	115.8	575	560.3	129.3	635	618.7	142.8	695	677.2	156.3
396	385.9	89.1	456	444.3	102.6	516	502.8	116.1	576	561.2	129.6	636	619.7	143.1	696	678.2	156.6
397	386.8	89.3	457	445.3	102.8	517	503.7	116.3	577	562.2	129.8	637	620.7	143.3	697	679.1	156.8
398	387.8	89.5	458	446.3	103.0	518	504.7	116.5	578	563.2	130.0	638	621.6	143.5	698	680.1	157.0
399	388.8	89.8	459	447.2	103.3	519	505.7	116.7	579	564.2	130.2	639	622.6	143.7	699	681.1	157.2
400	389.7	90.0	460	448.2	103.5	520	506.7	117.0	580	565.1	130.5	640	623.6	144.0	700	682.1	157.5
401	390.7	90.2	461	449.2	103.7	521	507.6	117.2	581	566.1	130.7	641	624.6	144.2	701	683.0	157.7
402	391.7	90.4	462	450.2	103.9	522	508.6	117.4	582	567.1	130.9	642	625.5	144.4	702	684.0	157.9
403	392.7	90.7	463	451.1	104.2	523	509.6	117.6	583	568.1	131.1	643	626.5	144.6	703	685.0	158.1
404	393.6	90.9	464	452.1	104.4	524	510.6	117.9	584	569.0	131.4	644	627.5	144.9	704	686.0	158.4
405	394.6	91.1	465	453.1	104.6	525	511.5	118.1	585	570.0	131.6	645	628.5	145.1	705	686.9	158.6
406	395.6	91.3	466	454.1	104.8	526	512.5	118.3	586	571.0	131.8	646	629.4	145.3	706	687.9	158.8
407	396.6	91.6	467	455.0	105.1	527	513.5	118.5	587	572.0	132.0	647	630.4	145.5	707	688.9	159.0
408	397.5	91.8	468	456.0	105.3	528	514.5	118.8	588	572.9	132.3	648	631.4	145.8	708	689.9	159.3
409	398.5	92.0	469	457.0	105.5	529	515.4	119.0	589	573.9	132.5	649	632.4	146.0	709	690.8	159.5
410	399.5	92.2	470	458.0	105.7	530	516.4	119.2	590	574.9	132.7	650	633.3	146.2	710	691.8	159.7
411	400.5	92.5	471	458.9	106.0	531	517.4	119.4	591	575.9	132.9	651	634.3	146.4	711	692.8	159.9
412	401.4	92.7	472	459.9	106.2	532	518.4	119.7	592	576.8	133.2	652	635.3	146.7	712	693.8	160.2
413	402.4	92.9	473	460.9	106.4	533	519.3	119.9	593	577.8	133.4	653	636.3	146.9	713	694.7	160.4
414	403.4	93.1	474	461.9	106.6	534	520.3	120.1	594	578.8	133.6	654	637.2	147.1	714	695.7	160.6
415	404.4	93.4	475	462.8	106.9	535	521.3	120.3	595	579.8	133.8	655	638.2	147.3	715	696.7	160.8
416	405.3	93.6	476	463.8	107.1	536	522.3	120.6	596	580.7	134.1	656	639.2	147.6	716	697.6	161.1
417	406.3	93.8	477	464.8	107.3	537	523.2	120.8	597	581.7	134.3	657	640.2	147.8	717	698.6	161.3
418	407.3	94.0	478	465.7	107.5	538	524.2	121.0	598	582.7	134.5	658	641.1	148.0	718	699.6	161.5
419	408.3	94.3	479	466.7	107.8	539	525.2	121.2	599	583.6	134.7	659	642.1	148.2	719	700.6	161.7
420	409.2	94.5	480	467.7	108.0	540	526.2	121.5	600	584.6	135.0	660	643.1	148.5	720	701.5	162.0

D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI
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Taboa XVIII

Conversão de tempo em arco e vice-versa
Conversion of time into arc and vice-versa

Table XVIII

m	0H	1H	2H	3H	4H	5H	6H	7H	8H	9H	10H	11H	s	0.0
0	0° 0'	15° 0'	30° 0'	45° 0'	60° 0'	75° 0'	90° 0'	105° 0'	120° 0'	135° 0'	150° 0'	165° 0'	0	0.0
1	15	15	15	15	15	15	15	15	15	15	15	15	1	0.2
2	30	30	30	30	30	30	30	30	30	30	30	30	2	0.5
3	45	45	45	45	45	45	45	45	45	45	45	45	3	0.7
4	1° 0'	16° 0'	31° 0'	46° 0'	61° 0'	76° 0'	91° 0'	106° 0'	121° 0'	136° 0'	151° 0'	166° 0'	4	1.0
5	15	15	15	15	15	15	15	15	15	15	15	15	5	1.2
6	30	30	30	30	30	30	30	30	30	30	30	30	6	1.5
7	45	45	45	45	45	45	45	45	45	45	45	45	7	1.7
8	2° 0'	17° 0'	32° 0'	47° 0'	62° 0'	77° 0'	92° 0'	107° 0'	122° 0'	137° 0'	152° 0'	167° 0'	8	2.0
9	15	15	15	15	15	15	15	15	15	15	15	15	9	2.2
10	30	30	30	30	30	30	30	30	30	30	30	30	10	2.5
11	45	45	45	45	45	45	45	45	45	45	45	45	11	2.7
12	3° 0'	18° 0'	33° 0'	48° 0'	63° 0'	78° 0'	93° 0'	108° 0'	123° 0'	138° 0'	153° 0'	168° 0'	12	3.0
13	15	15	15	15	15	15	15	15	15	15	15	15	13	3.2
14	30	30	30	30	30	30	30	30	30	30	30	30	14	3.5
15	45	45	45	45	45	45	45	45	45	45	45	45	15	3.7
16	4° 0'	19° 0'	34° 0'	49° 0'	64° 0'	79° 0'	94° 0'	109° 0'	124° 0'	139° 0'	154° 0'	169° 0'	16	4.0
17	15	15	15	15	15	15	15	15	15	15	15	15	17	4.2
18	30	30	30	30	30	30	30	30	30	30	30	30	18	4.5
19	45	45	45	45	45	45	45	45	45	45	45	45	19	4.7
20	5° 0'	20° 0'	35° 0'	50° 0'	65° 0'	80° 0'	95° 0'	110° 0'	125° 0'	140° 0'	155° 0'	170° 0'	20	5.0
21	15	15	15	15	15	15	15	15	15	15	15	15	21	5.2
22	30	30	30	30	30	30	30	30	30	30	30	30	22	5.5
23	45	45	45	45	45	45	45	45	45	45	45	45	23	5.7
24	6° 0'	21° 0'	36° 0'	51° 0'	66° 0'	81° 0'	96° 0'	111° 0'	126° 0'	141° 0'	156° 0'	171° 0'	24	6.0
25	15	15	15	15	15	15	15	15	15	15	15	15	25	6.2
26	30	30	30	30	30	30	30	30	30	30	30	30	26	6.5
27	45	45	45	45	45	45	45	45	45	45	45	45	27	6.7
28	7° 0'	22° 0'	37° 0'	52° 0'	67° 0'	82° 0'	97° 0'	112° 0'	127° 0'	142° 0'	157° 0'	172° 0'	28	7.0
29	15	15	15	15	15	15	15	15	15	15	15	15	29	7.2
30	30	30	30	30	30	30	30	30	30	30	30	30	30	7.5
31	45	45	45	45	45	45	45	45	45	45	45	45	31	7.7
32	8° 0'	23° 0'	38° 0'	53° 0'	68° 0'	83° 0'	98° 0'	113° 0'	128° 0'	143° 0'	158° 0'	173° 0'	32	8.0
33	15	15	15	15	15	15	15	15	15	15	15	15	33	8.2
34	30	30	30	30	30	30	30	30	30	30	30	30	34	8.5
35	45	45	45	45	45	45	45	45	45	45	45	45	35	8.7
36	9° 0'	24° 0'	39° 0'	54° 0'	69° 0'	84° 0'	99° 0'	114° 0'	129° 0'	144° 0'	159° 0'	174° 0'	36	9.0
37	15	15	15	15	15	15	15	15	15	15	15	15	37	9.2
38	30	30	30	30	30	30	30	30	30	30	30	30	38	9.5
39	45	45	45	45	45	45	45	45	45	45	45	45	39	9.7
40	10° 0'	25° 0'	40° 0'	55° 0'	70° 0'	85° 0'	100° 0'	115° 0'	130° 0'	145° 0'	160° 0'	175° 0'	40	10.0
41	15	15	15	15	15	15	15	15	15	15	15	15	41	10.2
42	30	30	30	30	30	30	30	30	30	30	30	30	42	10.5
43	45	45	45	45	45	45	45	45	45	45	45	45	43	10.7
44	11° 0'	26° 0'	41° 0'	56° 0'	71° 0'	86° 0'	101° 0'	116° 0'	131° 0'	146° 0'	161° 0'	176° 0'	44	11.0
45	15	15	15	15	15	15	15	15	15	15	15	15	45	11.2
46	30	30	30	30	30	30	30	30	30	30	30	30	46	11.5
47	45	45	45	45	45	45	45	45	45	45	45	45	47	11.7
48	12° 0'	27° 0'	42° 0'	57° 0'	72° 0'	87° 0'	102° 0'	117° 0'	132° 0'	147° 0'	162° 0'	177° 0'	48	12.0
49	15	15	15	15	15	15	15	15	15	15	15	15	49	12.2
50	30	30	30	30	30	30	30	30	30	30	30	30	50	12.5
51	45	45	45	45	45	45	45	45	45	45	45	45	51	12.7
52	13° 0'	28° 0'	43° 0'	58° 0'	73° 0'	88° 0'	103° 0'	118° 0'	133° 0'	148° 0'	163° 0'	178° 0'	52	13.0
53	15	15	15	15	15	15	15	15	15	15	15	15	53	13.2
54	30	30	30	30	30	30	30	30	30	30	30	30	54	13.5
55	45	45	45	45	45	45	45	45	45	45	45	45	55	13.7
56	14° 0'	29° 0'	44° 0'	59° 0'	74° 0'	89° 0'	104° 0'	119° 0'	134° 0'	149° 0'	164° 0'	179° 0'	56	14.0
57	15	15	15	15	15	15	15	15	15	15	15	15	57	14.2
58	30	30	30	30	30	30	30	30	30	30	30	30	58	14.5
59	45	45	45	45	45	45	45	45	45	45	45	45	59	14.7

Seconds of time
Minutes and tenths of arc

Segundos de tempo
Minutos e decimos d'arco

Taboa X

Taboa para modificação da Longitude Estimada em Longitude Auxiliar
Table to modify the D R Longitude into auxiliar Longitude

Table X

Minutos d'arco W

Minutes of arc W

W

Longitude E

Tenths of Minutes /
Decimos de Minutos

0'	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
45	46	47	48	49	50	51	52	53	54	55	56	57	58	59

Segundos de tempo

1.0
.9
.8
.7
.6
.5
.4
.3
.2
.1

s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s
0:0	4:0	8:0	12:0	16:0	20:0	24:0	28:0	32:0	36:0	40:0	44:0	48:0	52:0	56:0	0:0
0:4	4:4	8:4	12:4	16:4	20:4	24:4	28:4	32:4	36:4	40:4	44:4	48:4	52:4	56:4	.1
0:8	4:8	8:8	12:8	16:8	20:8	24:8	28:8	32:8	36:8	40:8	44:8	48:8	52:8	56:8	.2
1:2	5:2	9:2	13:2	17:2	21:2	25:2	29:2	33:2	37:2	41:2	45:2	49:2	53:2	57:2	.3
1:6	5:6	9:6	13:6	17:6	21:6	25:6	29:6	33:6	37:6	41:6	45:6	49:6	53:6	57:6	.4
2:0	6:0	10:0	14:0	18:0	22:0	26:0	30:0	34:0	38:0	42:0	46:0	50:0	54:0	58:0	.5
2:4	6:4	10:4	14:4	18:4	22:4	26:4	30:4	34:4	38:4	42:4	46:4	50:4	54:4	58:4	.6
2:8	6:8	10:8	14:8	18:8	22:8	26:8	30:8	34:8	38:8	42:8	46:8	50:8	54:8	58:8	.7
3:2	7:2	11:2	15:2	19:2	23:2	27:2	31:2	35:2	39:2	43:2	47:2	51:2	55:2	59:2	.8
3:6	7:6	11:6	15:6	19:6	23:6	27:6	31:6	35:6	39:6	43:6	47:6	51:6	55:6	59:6	.9

Seconds of time

Decimos de Minutos /
Tenths of Minutes

14'	13'	12'	11'	10'	9'	8'	7'	6'	5'	4'	3'	2'	1'	0'
29	28	27	26	25	24	23	22	21	20	19	18	17	16	15
44	43	42	41	40	39	38	37	36	35	34	33	32	31	30
59	58	57	56	55	54	53	52	51	50	49	48	47	46	45

Longitude W

Minutos d'arco E

Minutes of arc E

E

Longitude W } parte de cima e margem direita
upper part and right hand side

Longitude E } parte debaixo e margem esquerda
lower part and left hand side


Exemplo Longitude W } $h \ v \ Gr = 5.^h \ 36.^m \ 27.^s6$ $L. e. = 24.^{\circ} \ 18.'6 \ W$
 $L. a. = 1. \ 37. \ 27.6 : W$ $L. a. = 24. \ 21.9 \ W$
 $H \ v \ l = 3. \ 59.$ $\diamond 1.^h \ 37.^m \ 27.^s6 \ W$

Exemplo Longitude E } $h \ v \ Gr = 18.^h \ 22.^m \ 49.^s2$ $L. e. = 40.^{\circ} \ 30.'5 \ E$
 $L. a. = 2. \ 42. \ 10.8 : E$ $L. a. = 40. \ 32.7 \ E$
 $H \ v \ l = 20. \ 05.$ $\diamond 2.^h \ 42.^m \ 10.^s8 \ E$

ERRATA

page.....2 The Columns marked with the sign \neq are only to be used for correcting the altitudes observed by the Bubble Sextant.

»	41.....	Course 18° ...D= 530	304.1, read.....	504.1
»	46.....	Course 21° ...D= 261	243.0 read.....	243.7
»	220.....	$l=31^{\circ} 00'$ P= 3^h27^m	$43.^{\circ} 8.'6$ read.....	$44.^{\circ} 8.'6$
»	225.....	$l=32^{\circ} 15'$ P= 5^h35^m	$79.^{\circ} 12.'6$ read.....	$80.^{\circ} 12.'6$
»	347.....	sec= 83° 35' 36'	p. p. 46 read.....	56
»	352.....	P=0.h..... (at the foot) $l=$ 69°	read.....	59°
»	352.....	P=0.h..... (at the foot) $l=$ 50°	read.....	60°
»	370.....	C= 0.68 $l=$ 44°	Z= 33.° 9 read.....	63.° 9



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To P. Helbrommer Esq. with the best

J. Carlos Pinto

Compliments and kind regards from

Lisbon Sept
16th 1933

J Carlos Pinto

The
"Simplex"
Navigation & Avigation
Tables

20. The

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...

THE
"SIMPLEX"

NAVIGATION & AVIGATION
TABLES

by

J. CARLOS PINTO

Master Mariner

co-author of the

MODERN NAVIGATION TABLES

by

NEWTON & PINTO

Co-operative of the 3.rd edition of the

MANUAL DO NAVEGANTE

by

IVENS FERRAZ

(Stowage & problems of speed
and consumption)

MANAGER of

Messrs. BENSAUDE & C.^a L.^{da}

Coals and Shipping

FAYAL
AZORES

1933

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I respectfully dedicate the present
book to Vasco Bensaude Esq., in token
of my gratitude for his friendship
and in homage to his great character

The Author

Introduction

While computing the present book, I only had in view the rendering of modest assistance to the progress, brevity and simplicity of skill in navigation. I was guided by the necessity of some method of the calculation devoid of signs or rules. I hope to have attained this desideratum, and hope have done away with the objection of many navigators to using an assumed position, different to that of *D. R.*

With the development adopted in this book, the assumed position becomes almost equal, in practice, to the *D. R.* position, therefore it is unnecessary to rectify the lines of position when due to a big intercept. The angle on the pole to any Celestial Body is given in this work, in hours and minutes, being similars units to those of chronometers and clocks. In this way there is an advantage of, not only showing the calculation clearer, but also affording a possibility of checking the watch aboard to the local apparent time.

To the «Traverse Table» I have given a large development — 720 miles — as there are modern vessels which attain almost to the limits of our Table in a day's run.

To calculate this, I have thought of an original and ingenious process of extreme facility and quickness. Instead of using logarithmic formulae, I have dealt with natural sines and cosines and a calculating machine. Placing in this the natural sine or cosine as a constant factor, taking for the other factor a certain number of miles, one turn of the handle gave immediately the *Dep* or ΔI , correspondent to the same number of miles. However, as the machine I used, advanced one unit per turn, it is evident that the immediate product, would correspond to the immediate exact number of miles, and so forth. It was by this quick, easy and accurate system, that I computed the whole of the Traverse Table from 0' up to 720' with the help of my young son.

* *

*

Before even thinking of publishing this work, I had calculated a part of *Table XII*, for use between the parallels of 30' to 40' and passed this on to my brother, Capt. R. Pinto, then in command of the Portuguese S/S «Lima» requesting him, together with his officers, to let me know frankly, what was their appreciation of the process. After a few months of exhaustive trials and of constant use aboard, the satisfactory results obtained and the simplicity of the method, as well as the adoption of an assumed position, always close to the *D. R.*, made them all so enthusiastic, that they offered their assistance with the fastidious task of calculating. Had it not been for this most valuable help, this work would have been completed much later.

Contrary to the methods of several recognised authorities on this special treatise, I have separated the Altitude calculation from that of the Azimuth, thus avoiding rules and signs. In computing Z , I have adopted the well known *A. B. C.* tables to which I gave an unusual development. To *Table C.* I gave a plan better suited to the ordinary cases aboard. However, should the limits of the *A. B. C. Tables* (up to 60° of *lat.* and *dec.*) be exceeded by the *lat.* of the observer or whenever it is to be desired to obtain Z with exactness, or even when one does not like to deal with *A. B. C. Tables*, I have shown at the end an explanatory manner of using the *Tables XII and XIII*, giving examples, for the purpose of obtaining Z by the Altitude Tables. Z is in this way given for even $15'$ of declination, for all degrees and minutes of *lat.* and for every minute of Hour Angle.—The other sundry Tables presented are similar to those existing in other books, the only novelty being special Tables to correct altitudes of Celestial Bodies when observed by Bubble Sextant (Admiral Gago Coutinho's system) be it a star, planet, moon or sun.

The present volume has been an absolute «tour de force» and extremely extenuating. For six years, all my spare time has been dedicated to the compiling and preparation of this enormous task.

Fortunately, friends and colleagues have come to my assistance, and as mentioned above helped to compute *Table XII*. I have arranged several big printed sheets, to coordinate and govern the work of all. Nevertheless, verifying alone every calculation, correcting, reverifying and checking by other processes, become so tedious, that were it not for a great love of navigation I should have forsaken the production.

For kind assistance rendered, I beg to offer my sincere gratitude to messrs Jacques Bensaude, Raul C. Pinto, J. C. Silva, C. E. Calás, D. A. Rainho, L. V. Spencer, F. S. Franco, J. P. Ramalheira, M. A. Bio, S. A. Gouveia, J. R. Bernardo, J. Faustino Jor. e E. Catarino.

I showed the proofs of this volume to my old and distinguished professor of navigation, Mr J. M. Pereira and had the pleasure of obtaining his approval. My dedicated friend and very learned Portuguese Naval Officer, Mr. A. C. Coucello, took charge of supervision of the printing at Ponta Delgada, where he is appointed Captain of the Port. I had shown my endeavour to this sincere friend shortly after its beginning, and he gave me such encouragement and valuable opinion on a few details, as to merit my very special thanks.

The printers «Oficina de Artes Graficas» at Ponta Delgada, St. Michaels Island, have shown extraordinary goodwill in presenting the very best they could do. Finally, I have the honour to submit to the appreciation of all at sea, this unpretentious work of mine, hoping they will recognise in it a sincere effort to assist in the skill of navigating.

Faial, Azores
April, 1933

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EXPLANATION OF THE PROCESS

Tables XII & XIII

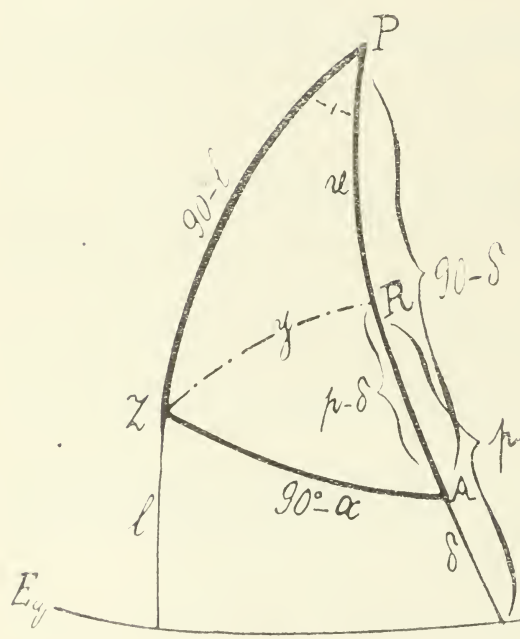


Fig I

In Fig. I, we have the following:

Eq Eq' = celestial equator

l = latitude

δ = declination

A = celestial body

Z = zenith

P = pole

PZ = co-latitude

ZA = co-altitude or zenithal dist.

PA = co-declination or polar dist.

PZA = triangle of position

If in the triangle PZA , we draw a great circle y , through Z , to the side PA , we divide thus the oblique triangle PZA in two right spherical triangles with a common side y and

two right angles at R . In the upper triangle PRZ , we know P as angle at the pole (in time) and the side $90^\circ - l$ as DR 's colatitude of the observer. We have to find both sides x and y .

Referring to Napier's rules, we have that

$$\cos P = \cot (90^\circ - l) \cdot \tan x$$

or

$$\cos P = \tan l \cdot \tan x$$

$$\text{where, } \tan x = \frac{\cos P}{\tan l} = \cos P \cdot \cot l$$

Instead however, of obtaining the $tg\ x$, we can for convenience of signs to the calculation, and as an easier artifice to determine the lower triangle ZRA , to obtain the $cot\ p$, since x is only the complement of $Eq'\ R=p$ (projection of latitude), it is then

$$cot\ p = cos\ P \cdot cot\ l \dots\dots\dots fórmula\ 1$$

that appears on the first column of Table XII and given to every minute of time of P and for every 15' of arc of l .

Now to find the side y , we have:

$$\begin{aligned} sen\ y &= sen\ (90^\circ - l) \cdot sen\ P \\ sen\ y &= cos\ l \cdot sen\ P \dots\dots\dots fórmula\ 2 \end{aligned}$$

By this formula (2) we find the value of the side y common to both right triangles and with the arc of this *sine*, we obtain the log. of *sec.* (multiplied by 100.000) of same arc, and it is this *log.* that appears in the second column of our *Table XII* and given for every minute of time of P and every 15' of arc of l .

On the lower triangle ZRA , as the value of side y is already known and represented by the log of *sec.*, if we find the sum or the difference between $(90^\circ - x)$ and $(90^\circ - \delta)$ or simply between p and δ , we find the value of the side $(p - \delta)$ and we need to find now, the side ZA or say $(90^\circ - \alpha)$.

Still by Napier's rules, we have that

$$\begin{aligned} cos\ (90^\circ - \alpha) &= cos\ (p - \delta) \cdot cos\ y \\ \text{or} \\ sen\ \alpha &= cos\ (p - \delta) \cdot cos\ y \\ \text{or still} \end{aligned}$$

$$Cosec\ \alpha = sec\ (p - \delta) \cdot sec\ y \dots\dots\dots fórmula\ 3$$

from which it is perceived, that taking from *Table XII* the *log.* of *sec* $(p - \delta)$ given for every minute and tenths of arc, and adding it to the log. of *sec.* y , already found, and finding next the arc of its respective *cosec.*, the value of α or the so-called *Assumed Altitude*, is found.

Recapitulating, we see that the first entrance on the *Table XII*, with the data of the auxiliar latitude and assumed hour angle, (both of them near of the *DR's* position) we obtain the value of sides $90^\circ - x$ or p , and y , the former in degrees, minutes and tenths, the latter into a log. of *sec.* (5 places x 100.000).

The second entrance in the *Table XIII*, gives the *Assumed Altitude* by a *cosec.*

NOTE: *The Hour Angle, in this book is represented by P and always counted to E or W of the superior Meridian of the observer.*

HOW TO USE THE TABLES AND EXAMPLES

CONVERSION OF DEGREES INTO QUADRANTS AND VICE-VERSA Table I, page 1

Example: $346^{\circ} = 14^{\circ} \text{ NW}$

DISTANCE IN NAUTICAL MILES TO THE VISIBLE HORIZON Table II, page 1

Example: elevation 1673 feet, dist. to the horizon 47 miles

CORRECTION OF THE SUN'S OBSERVED ALTITUDE Table III, page 2

Bubble sextant (use the column marked \neq)
Example: alt. $\odot = 15^{\circ} 0'.0$, correction $- 3'.5$

Artificial horizon, lower limb (column 0)
Example: alt. $\odot = 40^{\circ} 0'.0$, correction $+ 15'.0$

On sea horizon, ordinary way
Example: alt. $\odot = 40^{\circ} 0'.0$, elevation 52 feet, Month of March
correction: $7'.9 + 0'.1$

On Aircraft and sea horizon
Example: elevation 1312 feet, alt. $\odot = 40^{\circ} 0'.0$, Month of March
(Use the column marked 0)

Correction	$+ 15'.0$
» of dip	$- 35'.5 \dots$ Table V, page 2-3
» » Month	$+ 0'.1$

CORRECTION OF OBSERVED ALTITUDES OF STARS AND PLANETS Table IV, page 2

These corrections are obtained in the same way as those of the Sun
and in the columns marked identically. Attention must
be paid to the signals.

On Aircraft and sea horizon
Example: elevation 1640 feet, alt. $\star = 30^{\circ} 0'.0$
(Use the column marked 0)

Correction	$- 1'.7$
» of dip	$- 39'.7$

CORRECTION OF THE MOON'S OBSERVED ALTITUDES

Upper limb

Table VI, page 3

On sea horizon, ordinary way

Example: alt. $\overline{\mathcal{C}} = 45^{\circ} 0'.0$, H p = 58', elevation 52 feet
 Correction +19.'2
 » elevation - 2.'1

On artificial horizon

Example: alt. $\overline{\mathcal{C}} = 65^{\circ} 0'.0$, H p = 54'
 Correction + 2.'6
 » + 5.'0 (elevation 0)

On Aircraft and sea horizon

Example: alt. $\overline{\mathcal{C}} = 50^{\circ} 0'.0$, H p = 54', elevation 984 feet
 Correction + 14.'2
 » + 5.'0 (from column 0 at the bottom)
 » of Dip - 30.'8 Table V, page 2-3

Lower limb

Table VII, page 3

On sea horizon, ordinary way

Example: alt. $\mathcal{C} = 65^{\circ} 0'.0$, H p = 56', elevation 66 feet
 Correction + 33.'5
 » elevation - 2.'9

On artificial horizon

Example: alt. $\mathcal{C} = 35^{\circ} 0'.0$, H p = 56'
 Correction + 54.'8
 » + 5.'0 (elevation 0)

On Aircraft and sea horizon

Example: alt. $\mathcal{C} = 60^{\circ} 0'.0$, H p = 57', elevation 1640 feet
 Correction + 38.'5
 » + 5.'0
 » of dip - 39.'7

By Bubble Sextant

Table IX, page 4

Example: alt. $\mathcal{C} = 65^{\circ} 0'.0$, H p = 58'
 Correction + 24.'1

CORRECTION TO THE TIME OF THE MOON'S MERIDIAN PASSAGE OVER THE OBSERVER'S MERIDIAN

Table XV, page 375

Example : T. m. pass. \mathcal{C} Gr. = $10^{\text{h}} 20^{\text{m}}$ Variation in 24 hours = 54^{m}

Long. = $30^{\circ} 00' \text{ W}$

Correction = $+ 4^{\text{m}}$ thus T. m. pass. \mathcal{C} = $10^{\text{h}} 24^{\text{m}}$

CORRECTION OF THE RADIO BEARINGS OBSERVED ABOARD

Table VIII, page 4

Data: $\Delta L.$ and $l. m.$

$\Delta L. = \text{Ship's Long.} \pm \text{Wireless Shore station's Long}$

$l. m. = \frac{\text{Ship's lat.} \pm \text{Wireless Shore station's lat.}}{2}$

Example: $\text{lat. } m. = 40^{\circ} \text{ N}$, and $\Delta L. = 14^{\circ}$

Correction = 4.05 (sign. as per rules given in Table VIII)

TO MODIFY THE D. R.'s LONGITUDE INTO AUXILIAR LONGITUDE

Table X, page 5

On the central part of this Table, are the numbers of seconds and tenths of seconds of time. When the *Long.* is *W*, find on the upper part of same Table, the number of minutes of arc nearer to the minutes of *D. R.'s Long.* on the same column as these. On the right hand side and in the same line, find the tenths of arc.

Example: *G. A. Time* = $4^{\text{h}} 26^{\text{m}} 32.4$ and *D. R. Long.* = $30^{\circ} 10.5 \text{ W}$

We find as auxiliar *Long.* = $30^{\circ} 8.1 \text{ W}$

Converting into time this *Long. a*, if we combine it with *G. A. T.* we have eliminated seconds and tenths of time, this being what we wanted without any interpolations, to use the Table XII to compute the altitude.

Should we deal with the moon, stars or planets, it is evident that instead of *G. A. T.* we must use *G. H. A.* (*Greenwich Hour Angle*) say:

G. M. T.
R.
G. S. T.
*R. A. **
G. H. A.
L. a.
H. A. or P.

Needless to say that we abandon the *D. R. Long.* for the altitude computation, and only this *L. a.* (*assumed Longitude*) is to be considered.

When the *Long.* is *E*, the lower and the left part of the Table X must be used as shown on same,

THREE POINTS PROBLEM

Capt. Fry's System

Table XI, page 6 to 95

Example: Let $A B C$ be three points of a coast line the bearings of which were measured aboard. Let us suppose, that between A & B such angle was 36° and between B & C the angle was 50° .

The distance between A & B , measured on coast chart, was of 5'. And the distance between B & C , also measured on the chart was of 7.5. The position of the boat is required.

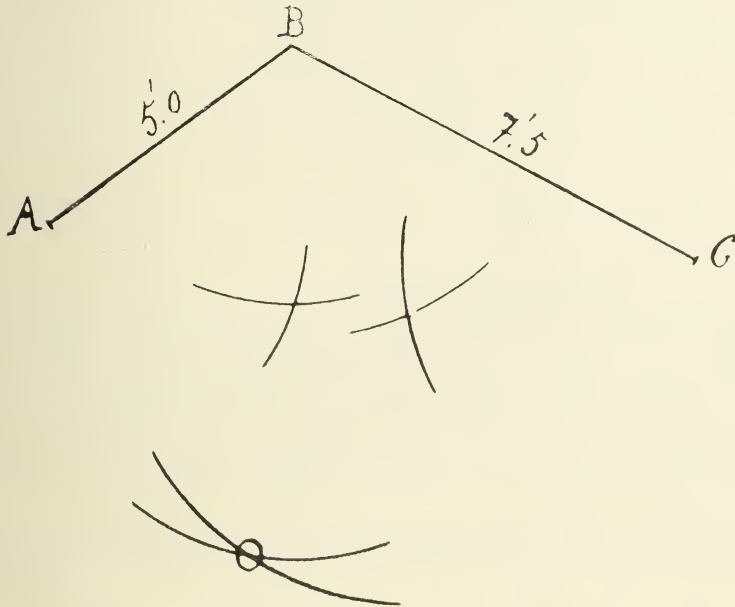


Fig. II

—Opening the Table XI at 36° (A & B), we see on the top, the value of $r=0.85$ that multiplied by 5' (distance between A & B) we get 4.25. With this value now, as a radius, measured on the *lat. scale* of same chart, draw with a pair of dividers, making centre on A , an arc (on the sea side). With this very same radius, making centre on B , draw another arc, cutting that first one. Making now centre on the cross point of both arcs, and still with same radius, draw a new arc, that gives a curve of the ship's position.

Next, dealing with B & C in same way, but with its angle and distance, thus; with 50° , we find $r=0.65 \times 7.5=4.9$. With this radius (4.9) centring on B , draw an arc (also to sea side) and with this very same radius, making centre on C , draw a new arc, cutting that one. Finally, centring on this latter cross point of arcs, draw another arc to cut the curve line of the ship's position previously found. On the cross point of both these curve lines, is the ship's position. This method is very simple, accurate and quick.

We can also find the radius by another process as follows:

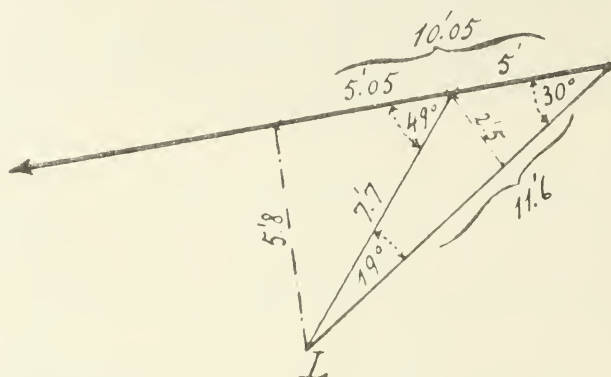
Angle between Beacons as Course and half of the distance between them in the column Dep. The radius is given by the column D.

TWO BEARINGS OF AN OBJECT AND DISTANCE RUN BETWEEN

«Capt. C. G. Palmgren, Pilot Chart, February, 1932»

«With two bearings of an object and the run between, the distance off at the second bearing may be obtained, by use of the Traverse Tables. Suppose an

object bears 30° on the bow, and after a run of 5 miles bears 49° . With 30° as a course, use 5 miles as the distance and take out departure of 2.5. Then, with the difference of the bearings (19°) as a course and departure 2.5, in the distance column it will be found 7.7 the distance off at the second bearing. Furthermore, the distance off when abeam will be found in the departure column, by using 49° as a course and 7.7 in the distance column, 5.8».



We may still develop this very interesting problem, thus while we found 5.8, we see at the same time that for adjacent side we find 5.05 that represents the distance to run from the position of the second bearing until the object is abeam. Should it be necessary now, to know how far off was the boat at the moment of first bearing, add these 5.05 with 5.0 = 10.05 and entering again with 30° as a course and 10.05 as Δl , we find 11.6 for distance off at the moment of first bearing. As departure, find again 5.8 as a check for this very simple method.

To illustrate this better, as well as the three points problem, two small *fig.* are shown.

OTHER USES OF THE TRAVERSE TABLES

Finding the distance at which a boat would pass off a lighthouse, knowing the distance to the same lighthouse.

Head angle as course and distance to light as D.

The column *Dep.* gives the value required, or it be the minor distance at which the boat shall pass, should its course be unaltered by the sea currents, winds or bad steering.

Finding the head angle to steer in order to pass at a given distance off a lighthouse, when this be abeam.

Dep.=to the distance wanted

D.=to the dist. at which the lighthouse is.

Looking at the Tables, for a page in which these values, in their respective columns, agree, we find the angle (given at the top or bottom of the Table) which represents the head angle required.

To convert nautical miles into kilometers and vice-versa

(The results obtained are only approximate)

Data: Course 33° (always) page 70 & 71

D.=Kilometers Dep.=nautical miles

To convert meters into English feet and vice-versa

(The results obtained are only approximate)

Data: Course 17° (always) page 38 & 39

Dep.=meters Δl =feet

To convert meters into fathoms and vice-versa

(The results obtained are only approximate)

Data: Course 29° (always) page 62 & 63

Δl =meters Dep.=fathoms

SPEED PROBLEMS

Finding the distance run, or to run, on a given time

Looking in the column *Dep* for the hourly ship's speed, corresponding to 60 on the column *D*, we have the results given to any number of minutes, thus;

Dep=distance wanted *D*=number of minutes.

Example: Hourly ship's speed 13.5. What is the distance to run in 20 minutes? In this case, page 30, we find 4.5 corresponding to 20 minutes on the column *D*.

AVIGATION: Should an aircraft be considered, for a similar problem as above, the Tables still give the required result.

Example: Hourly speed 94 miles (take this as 9.4). What is the distance to run in 20 minutes? On the page 22, we find 31' (approximately) on the column *Dep*. corresponding to 20 minutes on *D*.

D. R. PROBLEMS

All these well known problems can be solved by the Table XI page 6 to 95. Explanations for these are not necessary, as they are familiar to all navigators.

COMPUTING THE ALTITUDE OF ANY CELESTIAL BODY

The bearing of the Celestial Body and the intercept must be marked off from the assumed position and applied ONLY TO THIS.

Tables XII & XIII, pages 96 to 347
(Between the parallels of 60° N to 60° S)

For higher latitudes, see the end of explanations.

1st Case: P minor than 6 hours, lat. of same nome as declination.

Example: $\left\{ \begin{array}{l} l = 32^{\circ} 15' \text{ N} \\ P = 2^{\text{h}} 41^{\text{m}} \\ \delta \odot = 18^{\circ} 36.4' \text{ N} \end{array} \right.$ On page 225, we have at the top the lat. and with $P = 2^{\text{h}} 41^{\text{m}}$ we find

$$\begin{array}{rcl} p = 39^{\circ} 34.8' & y & 7702 \\ p - \delta \odot = 20^{\circ} 58.4' & \log. \sec & 2977 \dots \text{pag. 338} \\ & \log. \csc. \alpha & 10679 \end{array} \left. \vphantom{\begin{array}{rcl} p = 39^{\circ} 34.8' \\ p - \delta \odot = 20^{\circ} 58.4' \end{array}} \right\} \text{ add always}$$

$$\alpha_e \ominus = 51^{\circ} 26.7' \dots \text{page 340}$$

Remark; Should p , be less than δ , we simply say $\delta - p$.

2nd Case: P less than 6 hours, lat. of contrary name of declination.

Example: $\left\{ \begin{array}{l} l = 39^{\circ} 45' \text{ N} \\ P = 3^{\text{h}} 19^{\text{m}} \\ \delta \odot = 5^{\circ} 20.6' \text{ S} \end{array} \right.$ On page 255, we have at the top the lat. and with $P = 3^{\text{h}} 19^{\text{m}}$ we find

$$\begin{array}{rcl} p = 52^{\circ} 9.4' & y & 9166 \\ p + \delta = 57^{\circ} 30.0' & \log. \sec. & 26978 \dots \text{pag. 343} \\ & \log. \csc. \alpha & 36144 \end{array} \left. \vphantom{\begin{array}{rcl} p = 52^{\circ} 9.4' \\ p + \delta = 57^{\circ} 30.0' \end{array}} \right\} \text{ add always}$$

$$\alpha_e \ominus = 25^{\circ} 47.4' \text{ page 344}$$

Remark; We have added p to δ , as they are of contrary name.

3rd Case: P more than 6 hours, lat. & declination of same name.

Example: $\left\{ \begin{array}{l} l = 54^{\circ} 15' \text{ N} \\ P = 7^{\text{h}} 14^{\text{m}} \\ \delta \odot = 23^{\circ} 10' \text{ N} \end{array} \right.$ On page 313, we have at the top the lat. and with $P = 7^{\text{h}} 14^{\text{m}}$ we find

$$\begin{array}{rcl} p = 77^{\circ} 8' & y = & 7963 \\ p + \delta = 100^{\circ} 18' & & \\ - 180^{\circ} 0' & & \\ 180^{\circ} - (p + \delta) = 79^{\circ} 42' & \log. \sec. = & 74763 \dots \text{pag. 346} \\ & \log. \csc. \alpha = & 82726 \end{array} \left. \vphantom{\begin{array}{rcl} p = 77^{\circ} 8' \\ p + \delta = 100^{\circ} 18' \end{array}} \right\} \text{ add always}$$

$$\alpha_e \ominus = 8^{\circ} 33.6' \text{ page 346}$$

Remark; We have added p to δ , in spite of lat. & declination being of same name, as P was more than 6^h.

With the particular case of an Ex-meridian altitude or lat. by the Polar Star, the method is always the same, and we have to deal with it as to any of the above examples. In cases like this, the calculation of Z is dispensed with, as it is considered that $\Delta \alpha$ is a correction to be applied to the latitude.

GREAT CIRCLE SAILING
COMPUTING THE INITIAL COURSE
Tables XIV, A. B. C.

This is computed in the same way as an ordinary Azimuth of a Celestial Body.

Data: P, l & δ , where:

$P = \Delta$ Long. between the starting point and point of destination
 $l =$ lat. of starting
 $\delta =$ » » destination

(Vidé example on the problem of Great Circle Distance.)

COMPUTING THE GREAT CIRCLE DISTANCE
Tables XII & XIII

1.st case: ΔL minor than 90° (or $< 6^h$)

We have to do the same as if it was an ordinary altitude computing of Celestial Body, noticing only that instead of finding the Altitude by the *Cosec.* (Table XIII) and to subtract it from 90° to find the distance, we can obtain this by the *sec.* at the top of a page of Table XIII.

Example: Find the Great Circle Distance, between the following points: (Near to Cape Roca and Sandy Hook).

Roca, $l_1 = (l) = 38^\circ 45' \text{ N}$ $L_1 = 9^\circ 30' \text{ W}$
S. Hook, $l_2 = (\delta) = 40^\circ 25' \text{ N}$ $L_2 = 73^\circ 15' \text{ W}$
 $(P) = \Delta L = 63^\circ 45' \diamond 4^h 15^m$

$\left. \begin{array}{l} (l) = l_1 = 38^\circ 45' \text{ N} \\ (P) = \Delta L = 4^h 15^m \\ (\delta) = l_2 = 40^\circ 25' \text{ N} \end{array} \right\} \begin{array}{l} \text{On page 251, we have at the top the} \\ l_1 \text{ and with } \Delta L \diamond P = 4^h 15^m \text{ we find} \end{array}$

$p = 61 \quad 8.5$ $y = 14589$
 $p - \delta = 20 \quad 43.5$ $\log. sec. = 2905$ pag. 338
 $\log. sec. D = 17494$ » 342
 $D = 48^\circ 3.2' = 2883.2 \text{ miles}$

INITIAL COURSE
Tables XIV, A. B. C.
Data from above

pages 364 and 365 $\left\{ \begin{array}{l} a = -0.40 \\ b = +0.95 \end{array} \right.$ Course = 67° NW
 page 369 $c = +0.55$

2.nd case: ΔL major than 90° (or $> 6^h$)

Finding the Great Circle Distance between the following points:

(Near to Macau and S. Francisco)

Macau, $l_1 = (l) = 22^\circ 15' \text{ N}$ $L_1 = 113^\circ 35' \text{ E}$
 S. Francisco, $l_2 = (\delta) = 37^\circ 48' \text{ N}$ $L_2 = 122^\circ 28' \text{ W}$
 $L_1 + L_2 = 236^\circ 3'$
 360
 $(P) = \Delta L = 123^\circ 57' \diamond 8^h 15^m 48^s$ or $8^h 16^m$ app

$$(I) = I_1 = 22^\circ 15' \text{ N}$$

$$(P) = \Delta L = 8^{\text{h}} 16^{\text{m}}$$

$$(\delta) = I_2 = 37^\circ 48' \text{ N}$$

$$p = 36 \quad 11.4$$

$$p + \delta = 73 \quad 59.4$$

$$\log. \sec. (180 - D) = 75235$$

$$(180 - D) = 79^\circ 48.8$$

$$-180 \quad 0.0$$

$$D = 100 \quad 11.2 = 6011.2$$

On page 185, we have at the top the I_1 and with $\Delta L \diamond P = 8^{\text{h}} 16^{\text{m}}$ we find

$$v = 19295$$

$$\log. \sec. = 55940$$

LATITUDE OF THE VERTEX

Tables XII & XIII

Data: $\left. \begin{array}{l} I_1 \text{ on the top} \\ \text{Initial Course converted in time as } P \end{array} \right\}$

With these two elements, we find an arc and a log. (Table XII); take no notice of the arc, and entering on the Table XIII with the log., find its corresponding arc in *cossec.* which represents the *latitude* of the *Vertex*.

Example: Cape Roca & Sandy Hook, (data from 1.st example of Great Circle Sailing)

$$I_1 = 38.^\circ 45' \dots \dots \text{Initial Course} = 67^\circ \text{ or in time } 4.^{\text{h}} 28^{\text{m}} = P$$

Page 251, I_1 on the top, and with $P \ 4.^{\text{h}} 28^{\text{m}}$, find arc... $64^\circ 2.5$. log 15729

Read lat. of the Vertex, Table XIII, page 341..... Cossec. $44.^\circ 7.2$

LONGITUDE OF THE VERTEX

The following method being only approximate, serves only for practical work. Whenever greater accuracy is to be desired, interpolations must be done.

Table XIV - A

Data: I_1 in its column I , and the value of c_1 (which has served to find the initial course) where found. On the upper part of the Table *A* read the hours and minutes (P) which are to be converted in arc. Next, subtract this arc from 90° and apply the result to the I_1 (Longitude of Departure) thus obtaining the Longitude of the Vertex.

Example: Cape Roca & Sandy Hook, data from other example shown in this book.

Data: $I_1 = 38.^\circ 45'$, page 362, $c = +0.55$ (from initial course), we find $3.^{\text{h}} 44.^{\text{m}}$ at the top of Table XIV *A*. Converting now $3.^{\text{h}} 44.^{\text{m}}$ into arc, we

find approximately $56.^\circ 00'$

$$-90. \quad 0$$

$$34. \quad 0$$

$$L_1 = 9. \quad 30 \quad \text{Longitude of Roca}$$

$$\text{Longitude of the Vertex} = 43. \quad 30$$

(If proper interpolations were done, we would arrive at $43^\circ 39'$)

RISING AND SETTING OF THE SUN AND ITS TRUE BEARING ON THE HORIZON

(Corresponding about $\frac{2}{3}$ of the Diameter of the Sun above the Sea Level)
Tables XII & XIII

1.st Case: $\delta\odot$ and *lat.* of same name.

Entering in the Table XII with $\delta\odot$ on top and with $(90^\circ - l)$ into one of the columns where are degrees, minutes and tenths, look for the nearest arc of the colatitude. Just at the side of this arc and at its righth, appears a log. of which we take a note. The hour angle on the upper and left part of the Table XII gives us immediately the time of rising. On the lower and right part of same page, read the setting. *In short, read the rising from top, read the setting from bottom.* To find *Z*, we have to enter in the Table XIII with the log. of which we took a note, as above mentioned, and at the top and left side of this Table (*sec.*) read the *Z* (bearing) which takes always the same name as $\delta\odot$.

Example: $\left\{ \begin{array}{l} \delta\odot = 19^\circ 15' N \\ l = 37^\circ 0' N \end{array} \right\}$ find the rising, setting and the *Z*.

Page 137, at the top, $19^\circ 15'$ (declination) and $(90^\circ - 37^\circ 0' N) = 53^\circ 0'$ (colatitude) we find as the nearest arc $53^\circ 08'$ and at the side of this 38431. On the upper part and left side, we read $4.^h59^m$ or rising; on the lower and right side, read $7.^h01^m$ or time of setting. Next, opening the Table XIII (in this case, page 344) with the log. 38431 we find *sec.* $Z = 65^\circ 37'$ at the rising and setting.

2.nd Case: $\delta\odot$ and *lat.* of contrary names.

The method is the same as described in the first example, but we must read the rising on the lower and right side; the setting, on the upper and left side. *In short, read the rising from bottom, and the setting from top.*

Example: $\left\{ \begin{array}{l} \delta\odot = 21^\circ 45' N \\ l = 31^\circ 18' S \end{array} \right\}$ find the rising, setting and the *Z*.

Page 183, at the top, $\delta\odot$ and $(90^\circ - 31^\circ 18') = 58^\circ 42'$, we find as the nearest arc $58^\circ 46.1$ and 36315. On the upper part, read $5.^h04^m$, time of setting; from bottom read $6.^h56^m$ or time of rising. Next, on the Table XIII with the log. *sec.* find $Z = 64^\circ 19'$ at the rising and setting. As already has been said, the *Z* takes always the same name as $\delta\odot$

We could also find *Z* by the following formula:

$$\sec Z = \frac{\cos \delta \cdot \sec l}{\sec \delta}$$

which is easily done, by our Table XIII. The results would be the very same, as found in both examples.

Should the time of the apparent setting of the Sun be desired, apply the correction of the Table XVII to the result obtained by the Table XII.

RISING AND SETTING OF THE MOON, STARS AND PLANETS

Table XII

Data: δ , l and meridian time of its passage above the observer.

We have to use the Tables as explained about the Sun. However, as the tables for these celestial bodies only give the hour angle P , which is read on the upper part, when δ and l are of different name, and on the lower part, when δ and l are of same name, we have moreover:

This value of P , subtracted from the meridian time passage of the place, gives us the time of rising; added with this meridian time of passage, gives us the time of setting.

Example: δ and l of different names

$$\delta \text{ } \epsilon = 22^{\circ} 19' \text{ N } \quad l = 29^{\circ} 50' \text{ S } \quad \text{T. of Mer. pass.} = 16^{\text{h}} 10^{\text{m}}$$

page 185, on top $22^{\circ} 15'$ (nearest to δ)

$90^{\circ} - 29^{\circ} 50' = 60^{\circ} 10'$, we find the arc of $60^{\circ} 17.4'$ nearest to $(90^{\circ} - l)$ and on the upper part of same page, we read $P = 5^{\text{h}} 06^{\text{m}}$.

Now, as the Mer. T. of pass. $= 16^{\text{h}} 10^{\text{m}}$, subtracting the value of P ($5^{\text{h}} 06^{\text{m}}$) we find $11^{\text{h}} 4^{\text{m}}$ which is the time of rising. The time of setting is found, adding $16^{\text{h}} 10^{\text{m}}$ with $5^{\text{h}} 06^{\text{m}} = 21^{\text{h}} 16^{\text{m}}$.

Example: δ & l of same name

$$\delta * = 26^{\circ} 15' \text{ N } \quad l = 15^{\circ} 50' \text{ N } \quad \text{T. of Mer. pass.} = 3^{\text{h}} 10^{\text{m}}$$

page 201, on top $26^{\circ} 15'$

$(90^{\circ} - l) = 74^{\circ} 10'$. We find $74^{\circ} 14.4'$ (nearest) and on the lower part of same page read $P = 6^{\text{h}} 32^{\text{m}}$. Therefore as M. T. of pass. $= 3^{\text{h}} 10^{\text{m}}$ or $27^{\text{h}} 10^{\text{m}} - 6^{\text{h}} 32^{\text{m}} = 20^{\text{h}} 38^{\text{m}}$ which is the time of rising. Adding $3^{\text{h}} 10^{\text{m}}$ with $6^{\text{h}} 32^{\text{m}}$ we have $9^{\text{h}} 42^{\text{m}}$, time of setting.

SUN'S HOUR ANGLE AND ALTITUDE AT ITS PASSAGE OVER THE PRIME VERTICAL

Tables XII & XIII

Data: δ & l of same name; $l > \delta$

Entering the Table XII, at the top with the nearest value of δ , and looking for the nearest arc of l , read on the upper part (always) the P , or Hour Angle. The log. appearing at the side of said nearest arc of l , is the *cosec.* of Sun's Altitude at same moment.

$$\text{Example: } \delta \odot = 14^{\circ} 40' \text{ N } \quad \quad l = 36^{\circ} 15' \text{ N}$$

page 155. $14^{\circ} 45'$ (nearest of $14^{\circ} 40'$) at top, and the nearest of *lat.* find the arc of $36^{\circ} 18.2'$ 36650. Therefore, we have $P = 4^{\text{h}} 36^{\text{m}}$ and *cosec.* 36650, Table XIII, page 344 $\propto \odot = 25^{\circ} 28'$.

When l & δ are of opposite names, or when $\delta > l$, the Celestial Body does not pass over the prime vertical.

STARS & PLANETS IDENTIFICATION
Tables XII & XIII

To find the declination and hour angle, the following data are wanted:

$$\alpha_c *, Z_c * \text{ and } l$$

The Z_c will always be counted from N or S , and less than 90° .

- a) Enter the Table XII, with the nearest altitude (corrected) of the Celestial Body as an argument on top and with Z_c converted into time to the nearest minute. It is not necessary to interpolate.
- b) An arc, which call p is found, as well as a log. of the value of y (see Fig. I). That arc is to be combined with the lat .
- c) Make $p \pm l$, as per rules given below, and find its log. of *sec.* on the Table XIII to be added to the log. of y already found.
- d) With the addition of these two logs and still in same Table XIII, obtain its arc (*in cosec.*) which represents the declination of the Celestial Body.
- e) To find now the hour angle, see in the Table XIII what arc (*in log. of sec.*) does correspond to y and write at side, said arc, and find its log. of *cosec.*
- f) Find now the log. *sec* of δ ($\delta *$ is already found) and subtract this log from that log *cosec* obtained (*part c*).
- g) With the difference, find in *cosec.* the correspondent angle and this is the Hour Angle of the Body.

To name the declination and the hour angle the following rules must be observed:

$$l \text{ \& } Z \text{ of same name, make the difference between } p \text{ and } l. \left\{ \begin{array}{l} \delta \text{ takes the same name as } l \\ l < p, \text{ Hour Angle} = P * \\ l > p, 12^h - H. \text{ Angle} = P * \end{array} \right.$$

$$l \text{ \& } Z \text{ of different names, make } l + p \left\{ \begin{array}{l} \text{when } (l+p) < 90^\circ \text{ the declination takes the contrary name of } l \\ \text{when } (l+p) > 90^\circ \text{ » » » » same name of } l \\ \text{Hour Angle} = P * \end{array} \right.$$

A few examples are given here to illucidate the means of calculations. Such examples are extracted from a problem of a position obtained by three planets, shown further on.

Example 1st — l & Z of same name.

$$\alpha_c * = 8^{\circ} 51' \quad Z_c * = 63^{\circ} \text{ NE} \quad l = 37^{\circ} 28' \text{ N} \quad S. T. Gr. = 1^{\text{h}} 3^{\text{m}} 50^{\text{s}} 5$$

$$\alpha = 8^{\circ} 45' \text{ (as nearest on Table XII, page 131)}$$

$$Z \text{ in time} = 4^{\text{h}} 12^{\text{m}} \text{ N}$$

$$l = 37^{\circ} 28' \text{ N}$$

$$p = 18. 43.7 \dots p \dots 32441 \dots 61^{\circ} 43' \dots cosec \dots 5521$$

$$l - p = 18. 44 \dots sec \dots 2364$$

$$cosec \dots \overline{34805}$$

$$\delta = 26^{\circ} 40' \text{ N.} \dots \dots \dots sec. \dots -4884$$

$$cosec. \dots \overline{637}$$

$$\text{H. Angle} = 80^{\circ} 12'$$

$$\text{H. Angle in time} = 5^{\text{h}} 21^{\text{m}}$$

$$-12. 00$$

$$h a * = 24^{\text{h}} 0^{\text{m}} - P * = 24^{\text{h}} 0^{\text{m}} - 6^{\text{h}} 39^{\text{m}} = 17^{\text{h}} 21^{\text{m}}$$

$$P * = 6^{\text{h}} 39^{\text{m}} : \text{E}$$

Example 2nd — l & Z of contrary names

$$\alpha_c * = 46^{\circ} 30' \quad Z_c * = 62^{\circ} \text{ SE} \quad l = 37^{\circ} 28' \text{ N} \quad S. T. Gr. = 1^{\text{h}} 5^{\text{m}} 29^{\text{s}} 3$$

$$Z \text{ in time} = 4^{\text{h}} 08^{\text{m}} \text{ S}$$

$$l = 37^{\circ} 28' \text{ N}$$

$$p = 65. 59.2 \dots p \dots 10013 \dots 37^{\circ} 26' \dots cosec \dots 21621$$

$$l + p = 103. 27$$

$$-180. 0$$

$$180 - (l + p) = 76. 33 \dots sec \dots 63340$$

$$cosec \dots \overline{73353}$$

$$\delta = 10^{\circ} 39' \text{ N.} \dots \dots \dots sec. \dots -755$$

$$cosec. \dots \overline{20866}$$

$$\text{H. Angle} = 38^{\circ} 12'$$

$$\text{H. Angle in time} = 2^{\text{h}} 33^{\text{m}} = P * : \text{E}$$

$$h a * = 24^{\text{h}} 0^{\text{m}} - P * = 24^{\text{h}} 0^{\text{m}} - 2^{\text{h}} 33^{\text{m}} = 21^{\text{h}} 27^{\text{m}}$$

Example 3rd — l & Z of contrary names

$$\alpha_c * = 21^{\circ} 42' \quad Z_c * = 40^{\circ} \text{ SW} \quad l = 37^{\circ} 28' \text{ N} \quad S. T. Gr. = 1^{\text{h}} 7^{\text{m}} 22^{\text{s}} 1$$

$$Z \text{ in time} = 2^{\text{h}} 40^{\text{m}} \text{ S}$$

$$l = 37^{\circ} 28' \text{ N}$$

$$p = 27. 30.6 \dots p \dots 9571 \dots 36^{\circ} 40' \dots cosec \dots 22391$$

$$l + p = 64. 59 \dots sec \dots 37378$$

$$cosec \dots \overline{46949}$$

$$\delta = 19^{\circ} 50' \text{ S} \dots \dots \dots sec. \dots -2656$$

$$cosec. \dots \overline{19735}$$

$$\text{H. Angle} = 39^{\circ} 24'$$

$$h a * = 2^{\text{h}} 38^{\text{m}}$$

$$\text{H. Angle in time} = 2^{\text{h}} 38^{\text{m}} = P * : \text{W.}$$

Applying now to the *S. T. Gr.*, the Longitude converted in time, find the S. Time at the observer, and to this apply the *h a ** to obtain the *R. A.* of the Celestial Bodies.

$$\begin{array}{rcl}
\text{Thus: } S \ T \ Gr = 1.^{\text{h}} \ 3.^{\text{m}} 50.^{\text{s}} 5 & S \ T \ Gr = 1.^{\text{h}} \ 5.^{\text{m}} 29.^{\text{s}} 3 & S \ T \ Gr = 1.^{\text{h}} \ 7.^{\text{m}} 22.^{\text{s}} 1 \\
\quad Lt = 1. \ 42. \ 08 \ W & \quad Lt = 1. \ 42. \ 08 \ W & \quad Lt = 1. \ 42. \ 08 \ W \\
S. \ T. \ observer = 23. \ 21. \ 42. \ 5 & S. \ T. \ observer = 23. \ 23. \ 21. \ 3 & S. \ T. \ observer = 23. \ 25. \ 14. \ 1 \\
h \ * = 17. \ 21. & h \ * = 21. \ 27. & h \ * = 2. \ 38. \\
RA \ * = 6. \ 0. \ 42. \ 5 & RA \ * = 1. \ 56. \ 21. \ 3 & RA \ * = 20. \ 47. \ 14. \ 1
\end{array}$$

It is seen that either the declinations and $R. A.$ would identify those bodies.

ASTRONOMICAL NAVIGATION

Position at Sea or in the Air (Tables XII & XIII)

We are giving now, a few examples of position at Sea, and we believe these are sufficient to show the practical way of dealing with Tables XII & XIII. In these Tables, we have to assume an auxiliary position, near to D. R. For this reason, the minutes of *lat.* are always rounded at 0', 15', 30' or 45' as the case may be.

The Longitude is modified by the Table X.

To the lat. and Long. thus adopted, we call ASSUMED POSITION and it is always to this that all corrections shown by the calculations must be applied.

Line of position and Noon position. On board of Portuguese S/S «Carvalho Araujo», June 24th. 1931.

$l D. R. = 35^{\circ} 13' N$, $L D. R. = 13^{\circ} 38' W$. Ship's time $= 9^h 04^m$ a. m. elevation
36 feet, $G. A. T. = 21^h 59^m 11.9$, $\alpha_c \ominus = 50^{\circ} 16.2$, $\delta_{\odot} = 23^{\circ} 26.2 N$

Ship run until Noon 40' to 45° SW. *true*, α_c \odot noon = 78° 30.0

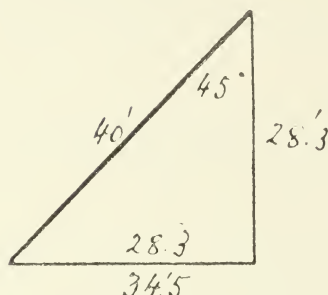
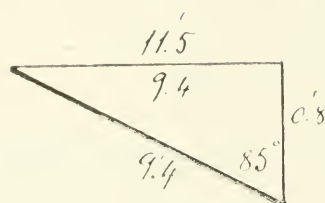
Find the position at noon.

(Time, altitudes and Course are already given corrected)

[illegible]

$$\begin{array}{rcl}
 l s H t = 34^{\circ} 47.5' N \neq & & \\
 \odot \text{ noon} = 23 \quad 26.1' N & & \\
 l - \odot & 11 \quad 21.4 & \Delta l = 1.2 \\
 & -90 & C = 0.11 \\
 & 78 \quad 38.6 & \Delta L = \Delta l \times C = 0.132 \\
 \alpha e \ominus & -9.8 \text{ (cont. sign.)} & \\
 A = 0.73 - & \alpha e \ominus = 50^{\circ} 25.6' - & C. T. III \\
 B = 0.62 + & \alpha c \ominus = 50 \quad 16.2 + & \alpha c \odot \quad 78 \quad 28.8 - \\
 C = 0.11 - & \Delta \alpha = 9.4 - & \alpha m \odot \quad 78 \quad 30.0 + \\
 & & \Delta \alpha = \Delta l (+) \quad 1.2 S \\
 Z = 84.08 SE & &
 \end{array}$$

SE
NW



(The Altitude at noon
was found combining $l. s.$
 $H. t.$ with $\Delta \alpha = \Delta l$)

Position $\left\{ \begin{array}{l} l \quad 34^{\circ} 46.3' N \\ \text{at noon} \quad l \quad 14^{\circ} 19.1' W \end{array} \right.$

POSITION BY THREE PLANETS OBSERVED ALMOST SIMULTANEOUSLY

On board of Portuguese S/s «Lima», December, 19th, 1928

$l D. R. = 37^{\circ} 28' N$, $L D. R. = 25^{\circ} 32' W$, $Ship's Time = 5^h 10^m$ p. m.

Altitudes corrected of planet $\left\{ \begin{array}{l} \text{♂ } \alpha c = 8^{\circ} 51.1' \\ \text{the Celestial Bodies } \gg \text{ ♀ } \alpha c = 46 \quad 30.1 \\ \text{and } S. T's. Gr. \gg \text{ ♀ } \alpha c = 21 \quad 42.1 \end{array} \right. \begin{array}{l} S. T. Gr. \quad 1.03.50.5 \\ S. T. Gr. \quad 1.05.29.3 \\ S. T. Gr. \quad 1.07.22.1 \end{array}$

(Assumed lat. $37^{\circ} 30'$)

$S. T. Gr. = 1.03.50.5$	$S. T. Gr. = 1.05.29.3$	$S. T. Gr. = 1.07.22.1$
$RA \text{ ♂} = 6. \quad 0. \quad 45.2$	$RA \text{ ♀} = 1.55. \quad 21.0$	$RA \text{ ♀} = 20.49. \quad 04.2$
$H a G = 19. \quad 3. \quad 05.3$	$H a G = 23.10. \quad 08.3$	$H a G = 4.18. \quad 17.9$
$Lt = 1.42. \quad 05.2$	$Lt = 1.42. \quad 08.4$	$Lt = 1.42. \quad 18.0$
$(\diamond 25.31.3' W \text{ or } La)$	$(\diamond 25.32.1' W \text{ or } La)$	$(\diamond 25.34.5' W \text{ or } La)$
$H a l = 17.21.$	$H a l = 21.28.$	$H a l = 2.36.$
$-24. \quad \left\{ \begin{array}{l} A+0.13 \\ B+0.51 \\ C+0.64 \end{array} \right.$	$-24. \quad \left\{ \begin{array}{l} A-0.98 \\ B+0.30 \\ C-0.68 \end{array} \right.$	$-24. \quad \left\{ \begin{array}{l} A-0.94 \\ B-0.58 \\ C-1.52 \end{array} \right.$
$P = 6.39. \quad E$	$P = 2.32. \quad E$	$P = 2.36. \quad W$

$Z = 63^{\circ} NE$

$Z = 62^{\circ} SE$

$Z = 40^{\circ} SW$

$$\begin{array}{r}
 \odot \text{ ♂} = 26.0 \quad 36.3' N \\
 77. \quad 33.2 \dots 20523 \\
 104. \quad 9.5 \\
 -180^{\circ} = 75. \quad 50.5 \dots 61154 \\
 \hline
 81677
 \end{array}$$

$$\begin{array}{r}
 \odot \text{ ♀} = 10.0 \quad 26.7' N \\
 44. \quad 14.3 \dots 5919 \\
 33. \quad 47.6 \dots 8037 \\
 \hline
 13956
 \end{array}$$

$$\begin{array}{r}
 \odot \text{ ♀} = 19.0 \quad 57.2' S \\
 44. \quad 38.1 \dots 6226 \\
 64. \quad 35.3 \dots 36742 \\
 \hline
 42968
 \end{array}$$

$$\begin{array}{r}
 \alpha c \text{ ♂} = 8.0 \quad 51.1' + \\
 \alpha e \text{ ♂} = 8. \quad 46.3 - \\
 \Delta \alpha_1 = 4.8 +
 \end{array}$$

$$\begin{array}{r}
 \alpha c \text{ ♀} = 46.0 \quad 30.1' + \\
 \alpha e \text{ ♀} = 46. \quad 29.0 - \\
 \Delta \alpha_2 = 1.1 +
 \end{array}$$

$$\begin{array}{r}
 \alpha c \text{ ♀} = 21.0 \quad 42.1' + \\
 \alpha e \text{ ♀} = 21. \quad 49.6 - \\
 \Delta \alpha_3 = 7.5 -
 \end{array}$$

Take now the Chart or squared paper. On the assumed parallel $37^{\circ} 30'$, marking those three assumed Longitudes and from these points, plotting their respective azimuths, intercepts and position lines, one would find as Ship's position the following:

$$l=37^{\circ} 35' \text{ N} \quad \text{Long.}=25^{\circ} 28' \text{ W}$$

POSITION BY TWO LINES NOT SIMULTANEOUS
Numerical method

- 1st*—Compute the first line of position as ordinarily and apply to the assumed position the Δl and ΔL given by the respective intercept. To the position found after this correction, name it *l SH.* and *L SH.*
- 2nd*—To this position *l SH.* and *L SH.* apply the Δl and ΔL due to the Ship's run from the first to the second observation, and call this result *l SHt* and *L SHt.*
- 3rd*—Compute the second line of position, with an *assumed position* as near as possible of *l SHt* and *L SHt.* To this *new assumed position*, apply the Δl and ΔL of its respective intercept (*2nd observation*) and find *l SH₂* and *L SH₂.*
- 4th*—Compare now the *l SHt* with *l SH₂* treating the latter as a latitude of arrival to fix the name of the Δl correction. Multiply this Δl by C_1 , which product gives us a correction C , to be applied to *L SHt*, obtaining finally L_1 . The sign of this correction is given by the well known Johnson's rule and dealing with Z_1 (*of 1st observation*). The result is, that we have conveyed the first observation to the latitude obtained by the second observation.
- 5th*—Make the difference now between L_1 and L_2 , thus finding ΔL and draw now a small *croquis*. From the points L_1 and L_2 , draw their respective azimuths and intercepts and position lines.
- 6th*—Add C_1 with C_2 , when both azimuths are of different quadrants; or make the difference between C_1 and C_2 when those azimuths are of same quadrant.
- 7th*—Dividing now ΔL by $C_1 \pm C_2$, find the correction ΔID , to apply to *l SH₂* and as the *croquis* will show, find finally the Ship's latitude at the instant of the *second observation*.
- 8th*—Multiplying $\Delta l \cdot D$ by C_1 , the correction ΔL is obtained and apply it to the L_1 , as the same *croquis* will also show, thus finding the Ship's Longitude at the time of *second observation*.

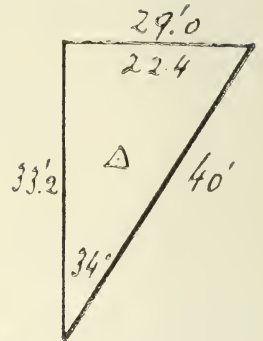
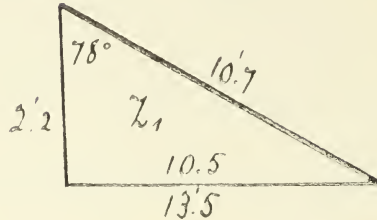
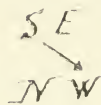
For the sake of safety, one may multiply $\Delta ID \times C_2$, thus obtaining the correction ΔL_2 which applied to L_2 as per *croquis*, will also give the Ship's Longitude at the time of *second observation*, and this result must be equal to that one already found by the L_1 .

Example: $l D. R.=39^{\circ} 17' \text{ N}$; $L. D. R.=47^{\circ} 32' \text{ W}$; $\alpha_c \ominus=50^{\circ} 25'.8$; $A. T. Gr.=0^h 19^m 29.^s 6$; $\delta \odot=22^{\circ} 43'.0 \text{ N}$; and after running $40'$ on true 34° NE , again the sun was observed, $\alpha_c \ominus=56^{\circ} 42'.8$, $A. T. Gr.=5^h 23^m 34.^s 8$, $\delta \odot=22^{\circ} 41'.8 \text{ N}$.

Find the ship's position at the time of the 2.nd observation

Numerical process

$$\left. \begin{array}{l} a - 0.88 \\ b + 0.61 \\ c_1 - 0.27 \end{array} \right\} Z = 78^\circ \text{ SE}$$



1.st position line and conveyed

$$A T G = 24.^h19.^m29.^s6 \quad l a = 39^\circ 15.0' \text{ N}$$

$$L t = 3.10.29.6 \quad \diamond L a = 47^\circ 37.4' \text{ W}$$

$$A T = 21.9$$

$$-24.0$$

$$P: E = 2.51$$

$$\partial \odot = 22^\circ 43.0' \text{ N}$$

$$p = 48 \quad 3.1 \dots 7023$$

$$p - \partial = 25 \quad 20.1 \dots 4392$$

$$\hline 11415$$

$$\alpha_c \ominus = 50 \quad 25.8 +$$

$$\alpha_e \ominus = 50 \quad 15.1 -$$

$$\Delta \alpha_1 = 10.7 +$$

$$l a = 39^\circ 15.0' \text{ N}$$

$$\Delta l = 2.2 \text{ S}$$

$$l s H = 39 \quad 12.8 \text{ N}$$

$$\Delta l = 33.2 \text{ N}$$

$$l s H t = 39 \quad 46.0 \text{ N}$$

$$L a = 47^\circ 37.4' \text{ W}$$

$$\Delta L = 13.5 \text{ E}$$

$$L s H = 47 \quad 23.9 \text{ W}$$

$$\Delta L = 29.0 \text{ E}$$

$$L s H t = 46 \quad 54.9 \text{ W} \neq$$

$$C = 0.9 \text{ W}$$

$$L_1 = 46 \quad 55.8 \text{ W}$$

2.nd position line

$$A T G = 5.^h23.^m34.^s8 \quad l a = 39^\circ 45.0' \text{ N}$$

$$L t = 3.07.34.8 \quad \diamond L a = 46^\circ 53.7' \text{ W} \neq$$

$$A T = 2.16$$

$$P: W = 2.16$$

$$\partial \odot = 22^\circ 41.8' \text{ N}$$

$$p = 45 \quad 5.5 \dots 4438$$

$$p - \partial = 22 \quad 23.7 \dots 3406$$

$$\hline 7844$$

$$\alpha_c \ominus = 56^\circ 42.8 +$$

$$\alpha_e \ominus = 56 \quad 35.5 -$$

$$\Delta \alpha_2 = 7.3 +$$

$$\left. \begin{array}{l} a - 1.24 \\ b + 0.75 \\ c_2 - 0.49 \end{array} \right\} Z = 69^\circ \text{ SW}$$

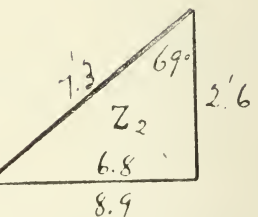
$$l a = 39^\circ 45.0' \text{ N}$$

$$\Delta l = 2.6 \text{ S}$$

$$l s H_2 = 39 \quad 42.4 \text{ N}$$

$$l s H t = 39 \quad 46.0 \text{ N}$$

$$\Delta l = 3.6 \text{ S}$$



$$L a = 46^\circ 53.7' \text{ W}$$

$$\Delta L = 8.9 \text{ W}$$

$$L_2 = 47 \quad 2.6 \text{ W}$$

$$\Delta l = 3.6 \quad \Delta L = L_2 - L_1 = 6.8 \quad (c_1 + c_2) = 0.76$$

$$\times C_1 = 0.27 \quad \Delta l D = \Delta L : (c_1 + c_2) = 6.8 : 0.76 = 8.9$$

$$\hline 252$$

$$\hline 72$$

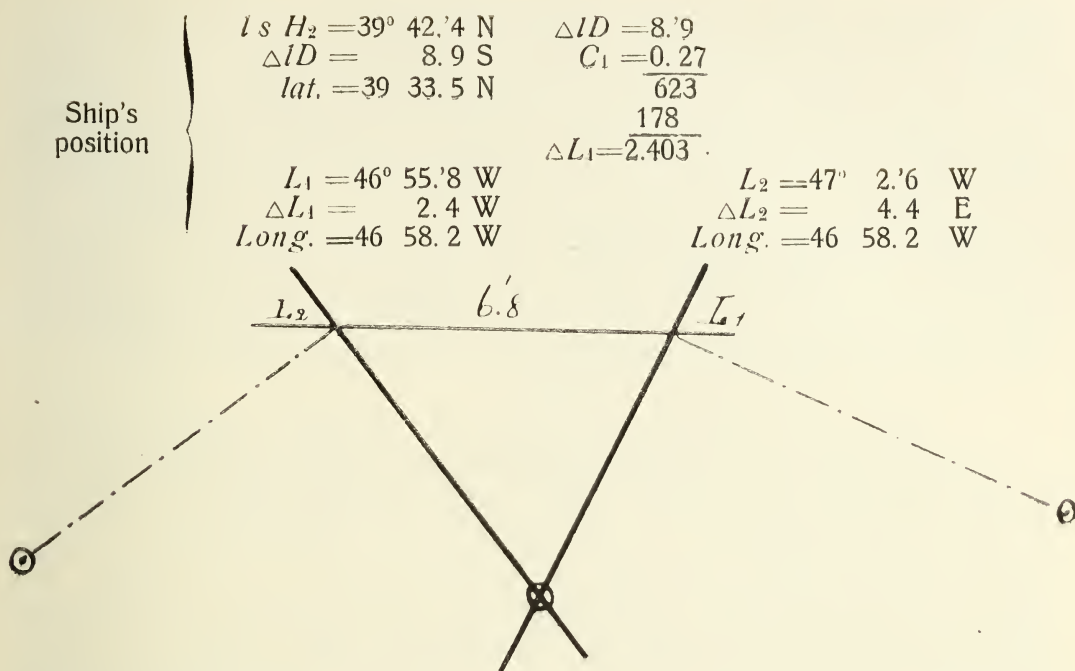
$$C = 0.972$$

$$\times C_2 = 0.49$$

$$\hline 801$$

$$\hline 356$$

$$\Delta L_2 = 4.361$$



NOTE: It would however be easier to use the graphical process or better still the chart, should the scale of this be large enough.

RESOLUTION OF VERY SAME PROBLEM BY THE CONSTRUCTION OF A SKETCH ON SQUARED PAPER

Do the same thing as has been indicated on the numerical method up to $N.^\circ 5^{th}$ inclusive, having only the care to draw the sketch on big scale as it is from this that depends the accuracy of the method. Needless to say that ΔL (between L_1 and L_2) is converted into Departure, and it is with this that we have to measure the number of spaces on the squared paper between L_1 and L_2 represented by a horizontal line. Drawing now, with a protractor, the respective azimuths and intercepts upon L_1 and L_2 , the crossing of position lines thus obtained, represents the *Ship's Position*. For finding the Δl to apply to $l SH_2$, only note how many spaces to N or S of the parallel L_1 and L_2 are, and measured on the same scale as before. To obtain the *Ship's Longitude* at the time of second observation, see how many spaces are from or to, of L_1 or L_2 and converting any of those into ΔL , we have only to apply it to L_1 or L_2 according to whether one or the other has been considered.

In the «Avigation», all problems are done in the same way as those explained for ordinary navigation. The only different thing, is that the Altitudes observed on a seaplane are to be corrected as such, and it is not necessary a great accuracy. To observe the Sun on Sea Horizon, while flying, is a very easy matter as I have noted. Apart from the quickness that must be had, the *avigation* does not offer special difficulties to any experienced navigator. It goes without saying, there is no way of obtaining a «fix» by two position lines unless these be simultaneous or almost that. The practice followed by famous air navigators has

been to make the best use of a single position line, or this combined with a radio bearing when the flying machine is fitted with *D. F.*

Just a few remarks about calculations at Sea

For greater quickness of the Altitude's computing, and as already suggested by us in «Modern Navigation Tables» by Newton & Pinto, we can write beforehand, with a pencil on the Nautical Almanac at the side of Equation of Time, the result of this combined with the Correction of the Chronometer. By this way we abbreviate the computing of *assumed hour angle*, as we can apply immediately to the Chronometer's Time, this value written by pencil in order to obtain the *A. T. at Gr.* When dealing with Avigation, we may also have another Chronometer settled for the *S. Time at Gr.* As flights are up to present time of short duration, a good watch substitutes with advantage the Chronometer.

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* *

We may also in general cases, avoid the Azimuth computing by the A. B. C. Tables or any other. Usually in Merchant Navy there is an officer taking the bearing of the body while another officer «shoots» with the sextant, to obtain the position line, and as a rule, the compass deviation, as well as the local variation are known, and therefore we can immediately apply both variations, or better still, the total variation, to the bearing given by the officer at the compass, thus obtaining *Z*. Now with this *Z* as course and Δz as distance, we obtain the position line. Should there be an error of one or even two degrees on the *Z* found by this manner, such error does not affect much the result of the position line. Besides this, some modern boats are already equipped with *giro* and consequently it is not necessary to calculate *Z*, except when a checking is wanted.

*

* *

Whenever the declination of any observed Celestial Body is absolutely equal to any number of degrees and minutes mentioned on the top of any page of Table XII, one can enter with this as if it was the latitude to obtain the *assumed altitude*. In this special case, the *D. R's latitude* can be dealt with. However the *D. R's Longitude* must always be modified into auxiliary Longitude.

Navigation skill is as interesting as any other skill and any one going deeply into it will find always opportunity of adopting several tricks that, without fleeing from the main rules, are in the meantime very useful and of very interesting and accurate results.

To the studious and more competent than ourselves, we give the hint for new things.

*

* *

In spite of the present Tables being only prepared to deal with latitudes between $60^{\circ} N$ to $60^{\circ} S$, they can however be used to find the Altitude of a celestial body should the latitude of the observer be above 60° . For this, it is enough to change the declination by the latitude, as is well known. In this case, we can operate in the computation, with the actual *D. R's latitude*, but on the other hand we have to correct the Altitude found by the computation, from the difference between the actual value of the declination and that one with which we have entered into the Table XII as these only allow rounded enterings up to 0', 15', 30' and 45'. We shall have therefore to find two altitudes considering two declinations within the limits of Table XII and in such a way that, the actual declination of the celestial body be between both declinations with which we have entered in the Table XII.

For instance, should the actual declination be $15^{\circ} 24'.6$, we would have to deal with $15^{\circ} 15'$ and $15^{\circ} 30'$. It is obvious that we obtain two altitudes, and finding next the difference of these, and entering the Table XV, page 375, with this difference from top and at the side with the minutes and tenths of the actual declination ($\Delta\delta$), we obtain a correction that applied to the 1st altitude found, gives us the altitude to the actual declination. To illucidate this, we present the following example:

Aboard of a Portuguese sailing vessel fishing on the W coast of Greenland.

$lat.=64^{\circ} 51' N$ $Long.=52^{\circ} 45' W$, August 14th, 1931.

$\delta\odot=14^{\circ} 36'.8 N$, $P\odot:E=2^h 55^m$

$\delta\odot=14^{\circ} 30' N$ page 154
 $P\odot=2^h 55^m$
 $l=64^{\circ} 51' N$
 $p=19. 41.9 \dots y$ 12911
 $l-p=45. 9.1 \dots sec$ 15166 pag. 341
 $cosec$ 28077
 $\alpha_1\ominus=31^{\circ} 35'.6$

$\delta\odot=14^{\circ} 45' N$ page 155
 $P\odot=2^h 55^m$
 $l=64^{\circ} 51' N$
 $p=20. 1.5 \dots y$ 12871
 $l-p=44. 49.5 \dots sec$ 14919 pag. 341
 $cosec$ 27790
 $\alpha_2\ominus=31^{\circ} 49'.6$

$\alpha_2\ominus-\alpha_1\ominus=14'.0$

entering now into the Table XV, page 375, with this $14'.0$ and with $6'.8$ ($\delta\odot=14^{\circ} 36'.8$) at the side, we find $6'.3$ for correction. Therefore $\alpha_c\ominus=31^{\circ} 35'.6+6'.3=31^{\circ} 41'.9$ or be the altitude computed.

AZIMUTH FINDING

by
 Tables XII & XIII

When accuracy of Z is wanted, or when one does not like to deal with the Tables $A. B. C.$ for that purpose, or even when the latitude of the observer exceeds 60° , (this being the limit of our book) the Tables XII & XIII may be used to find Z . For this, enter the Table XII with the declination of the *body* on top (or the nearer to it) and with P (hour angle) on the same Table. That is, first obtain the altitude of the body exactly as shown on the example of the calculation on the Greenland coast, no matter what the latitude of the observer may be.

Next, on Table XIII obtain the arc corresponding to the *log. of sec. p* . With this same arc and still in same Table XIII, obtain the respective *log. of cosec.* In same Table, with the altitude of the *body*, obtain its *log. of sec.* to be subtracted from that *log. of cosec.* With the difference, find in *cosec.* the corresponding degrees and minutes as this is Z .

Example: $lat. 64^{\circ} 51' N$ $\delta\odot 14^{\circ} 36'.8 N$ $P:E 2^h 55^m$

Find the Z

$\delta\odot 14^{\circ} 30' N$ (nearest)
 $P 2^h 55^m$
 $l 64^{\circ} 51' N$
 $p 19. 41.9 \dots y$ 12911 on T. XIII in *sec.* $42^{\circ} 1'.6$ and *log. cosec.* 17427
 $l-p 45. 9.1 \dots sec$ 15166
 $cosec$ 28077

log. cosec. 17427
 α^{\odot} 31.° 35.6 on T. XIII the log. sec. . . . (subtract) . . . 6967
 cosec. . . . difference . . . 10460
 Z \oplus 51° 48.6 SE

To name Z, observe the following rules:

$P < 6^h$ $\begin{cases} p > l. & \dots Z \text{ of same name as latitude} \\ p < l. & \dots Z \text{ of contrary name of latitude} \end{cases}$
 $P > 6^h$ Z of same name as latitude

On the example shown the Z 51.° 48' is SE as p (19° 41.9') is minor than lat. (64.° 51'). The finding of the azimuth by this process is accurate.

It is understood that at practice, all entrance in the Table XIII for this purpose of Z finding, can be made at sight without interpolations.

Another example: l 35.° 13' N δ^{\odot} 23.° 26' N P 2.^h 55.^m : E

S / S «Carvalho Araujo», June 24.th 1931

Find the Z of the Sun

δ^{\odot} 23° 30' N (nearest)
 $P : E$ 2.^h 55.^m
 l 35. 13 N
 p 31. 2. 7. . . p . 11171. On T. XIII, in sec. 39.° 21.5 log cosec. 19779
 $l-p$ 4. 10. 3. . sec. . 115
 cosec. . 11286
 α^{\odot} 50.° 27.5 On T. XIII, . . the log. sec. (subtract). . 19611
 cosec. difference. . 168
 Z \oplus 84.° 59' SE

As $p < l$, the Z is South

The reason of this process is the following:

If in the Fig. I, page X, we consider δ as l , $90 - \delta$ as $90 - l$, A as Z , Z as A , l as δ , $90 - l$ as $90 - \delta$ and therefore $p - \delta$ as $p - l$, we see that the angle at Z (where on Fig. I appears A) would remain as it is, say unparted. And then, by the Napier's Rules:

$$\text{sine } p = \text{sine } Z \cdot \text{sine } (90 - \alpha)$$

$$\text{or } \text{sine } p = \text{sine } Z \cdot \cos \alpha$$

$$\text{where } \text{sine } Z = \frac{\text{sine } p}{\cos \alpha}$$

$$\text{or still } \text{cosec. } Z = \frac{\text{cosec. } p}{\sec. \alpha}$$

For the sake of clearness and the deduction of the formulae, draw a fig. with the alteration as above described.

*

* *

Conversão de graus em quadrantes e vice-versa
To convert degrees into quadrants and vice-versa

Taboa I

Table I

N E						S E						S W						N W					
1°	1°	31°	31°	61°	61°	91°	89°	121°	59°	151°	29°	181°	1°	211°	31°	241°	61°	271°	89°	301°	59°	331°	29°
2	2	32	32	62	62	92	88	122	58	152	28	182	2	212	32	242	62	272	88	302	58	332	28
3	3	33	33	63	63	93	87	123	57	153	27	183	3	213	33	243	63	273	87	303	57	333	27
4	4	34	34	64	64	94	86	124	56	154	26	184	4	214	34	244	64	274	86	304	56	334	26
5	5	35	35	65	65	95	85	125	55	155	25	185	5	215	35	245	65	275	85	305	55	335	25
6	6	36	36	66	66	96	84	126	54	156	24	186	6	216	36	246	66	276	84	306	54	336	24
7	7	37	37	67	67	97	83	127	53	157	23	187	7	217	37	247	67	277	83	307	53	337	23
8	8	38	38	68	68	98	82	128	52	158	22	188	8	218	38	248	68	278	82	308	52	338	22
9	9	39	39	69	69	99	81	129	51	159	21	189	9	219	39	249	69	279	81	309	51	339	21
10	10	40	40	70	70	100	80	130	50	160	20	190	10	220	40	250	70	280	80	310	50	340	20
11	11	41	41	71	71	101	79	131	49	161	19	191	11	221	41	251	71	281	79	311	49	341	19
12	12	42	42	72	72	102	78	132	48	162	18	192	12	222	42	252	72	282	78	312	48	342	18
13	13	43	43	73	73	103	77	133	47	163	17	193	13	223	43	253	73	283	77	313	47	343	17
14	14	44	44	74	74	104	76	134	46	164	16	194	14	224	44	254	74	284	76	314	46	344	16
15	15	45	45	75	75	105	75	135	45	165	15	195	15	225	45	255	75	285	75	315	45	345	15
16	16	46	46	76	76	106	74	136	44	166	14	196	16	226	46	256	76	286	74	316	44	346	14
17	17	47	47	77	77	107	73	137	43	167	13	197	17	227	47	257	77	287	73	317	43	347	13
18	18	48	48	78	78	108	72	138	42	168	12	198	18	228	48	258	78	288	72	318	42	348	12
19	19	49	49	79	79	109	71	139	41	169	11	199	19	229	49	259	79	289	71	319	41	349	11
20	20	50	50	80	80	110	70	140	40	170	10	200	20	230	50	260	80	290	70	320	40	350	10
21	21	51	51	81	81	111	69	141	39	171	9	201	21	231	51	261	81	291	69	321	39	351	9
22	22	52	52	82	82	112	68	142	38	172	8	202	22	232	52	262	82	292	68	322	38	352	8
23	23	53	53	83	83	113	67	143	37	173	7	203	23	233	53	263	83	293	67	323	37	353	7
24	24	54	54	84	84	114	66	144	36	174	6	204	24	234	54	264	84	294	66	324	36	354	6
25	25	55	55	85	85	115	65	145	35	175	5	205	25	235	55	265	85	295	65	325	35	355	5
26	26	56	56	86	86	116	64	146	34	176	4	206	26	236	56	266	86	296	64	326	34	356	4
27	27	57	57	87	87	117	63	147	33	177	3	207	27	237	57	267	87	297	63	327	33	357	3
28	28	58	58	88	88	118	62	148	32	178	2	208	28	238	58	268	88	298	62	328	32	358	2
29	29	59	59	89	89	119	61	149	31	179	1	209	29	239	59	269	89	299	61	329	31	359	1
30	30	60	60	90	E	120	60	150	30	180	S	210	30	240	60	270	W	300	60	330	30	360	N

Distância em milhas ao horizonte visível
Distance to horizon in nautical miles

Taboa II

Table II

m	f	Dis	m	f	Dis	m	f	Dis	m	f	Dis	m	f	Dis	m	f	Dis
1	3	2.1	26	85	10.6	52	171	15.0	110	361	21.8	360	1181	39.5	650	2132	53.1
2	7	2.9	27	89	10.8	54	177	15.3	120	394	22.8	370	1214	40.0	700	2297	55.1
3	10	3.6	28	92	11.0	56	184	15.6	130	427	23.7	380	1247	40.6	750	2461	57.0
4	13	4.2	29	95	11.2	58	190	15.8	140	459	24.6	390	1280	41.1	800	2625	58.9
5	16	4.7	30	98	11.4	60	197	16.1	150	492	25.5	400	1312	41.6	850	2789	60.7
6	20	5.1	31	102	11.6	62	203	16.4	160	525	26.3	410	1345	42.1	900	2953	62.4
7	23	5.5	32	105	11.8	64	210	16.6	170	558	27.1	420	1378	42.6	950	3117	64.1
8	26	5.9	33	108	12.0	66	217	16.9	180	591	27.9	430	1411	43.2	1000	3281	65.8
9	30	6.2	34	112	12.1	68	223	17.2	190	623	28.7	440	1444	43.7	1100	3609	69.0
10	33	6.6	35	115	12.3	70	230	17.4	200	656	29.4	450	1476	44.1	1200	3937	72.1
11	36	6.9	36	118	12.5	72	236	17.7	210	689	30.2	460	1509	44.6	1300	4265	75.0
12	39	7.2	37	121	12.7	74	243	17.9	220	722	30.9	470	1542	45.1	1400	4593	77.9
13	43	7.5	38	125	12.8	76	249	18.1	230	755	31.6	480	1575	45.6	1500	4921	80.6
14	46	7.8	39	128	13.0	78	256	18.4	240	787	32.2	490	1608	46.1	1600	5249	83.2
15	49	8.1	40	131	13.2	80	263	18.6	250	820	32.9	500	1640	46.5	1700	5578	85.8
16	53	8.3	41	135	13.3	82	269	18.8	260	853	33.6	510	1673	47.0	1800	5906	88.3
17	56	8.6	42	138	13.5	84	276	19.1	270	886	34.2	520	1706	47.5	1900	6234	90.7
18	59	8.8	43	141	13.6	86	282	19.3	280	919	34.8	530	1739	47.9	2000	6562	93.1
19	62	9.1	44	144	13.8	88	289	19.5	290	952	35.4	540	1772	48.4	2100	6890	95.4
20	66	9.3	45	148	14.0	90	295	19.7	300	984	36.0	550	1804	48.8	2200	7218	97.6
21	69	9.5	46	151	14.1	92	302	20.0	310	1017	36.6	560	1837	49.2	2300	7546	99.8
22	72	9.8	47	154	14.3	94	308	20.2	320	1050	37.2	570	1870	49.7	2400	7874	—
23	76	10.0	48	158	14.4	96	315	20.4	330	1083	37.8	580	1903	50.1	2500	8202	—
24	79	10.2	49	161	14.6	98	322	20.6	340	1116	38.4	590	1936	50.5	2600	8530	—
25	82	10.4	50	164	14.7	100	328	20.8	350	1148	38.9	600	1969	51.0	2700	8858	—

Taboa III

Correcção das alturas do limbo inf. sol
Total correction of sun's observed altitudes

(aditiva)

Table III

E	≠	0	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	16m	18m	20m	22m	24m	26m	28m
A			10'	13'	16'	20'	23'	26'	30'	33'	36'	39'	43'	46'	52'	59'	66'	72'	79'	85'	92'
8° 00'	-6.5	+ 9.6	6.5	6.0	5.6	5.2	4.8	4.5	4.2	3.9	3.6	3.4	3.2	2.9	2.5	2.0	1.6	1.2	0.9	0.5	0.2
20	-6.3	+ 9.8	6.7	6.2	5.8	5.4	5.0	4.7	4.4	4.1	3.9	3.6	3.4	3.2	2.7	2.3	1.9	1.5	1.1	0.8	0.4
40	-6.0	+10.0	6.9	6.4	6.0	5.6	5.3	5.0	4.7	4.4	4.1	3.9	3.6	3.4	2.9	2.5	2.1	1.7	1.4	1.0	0.7
9 00	-5.8	+10.2	7.1	6.6	6.3	5.9	5.5	5.2	4.9	4.6	4.3	4.1	3.8	3.6	3.1	2.7	2.3	1.9	1.6	1.2	0.9
20	-5.6	+10.4	7.3	6.8	6.5	6.1	5.7	5.4	5.1	4.8	4.5	4.3	4.0	3.8	3.3	2.9	2.5	2.1	1.8	1.4	1.1
40	-5.4	+10.6	7.5	7.0	6.6	6.2	5.9	5.6	5.3	5.0	4.7	4.5	4.2	4.0	3.5	3.1	2.7	2.3	2.0	1.6	1.3
10 00	-5.2	+10.8	7.7	7.2	6.8	6.4	6.1	5.8	5.5	5.2	4.9	4.7	4.4	4.2	3.7	3.3	2.9	2.5	2.1	1.8	1.4
30	-5.0	+11.0	8.0	7.5	7.1	6.7	6.3	6.0	5.7	5.4	5.1	4.9	4.7	4.4	4.0	3.5	3.1	2.7	2.4	2.0	1.7
11 00	-4.8	+11.3	8.2	7.7	7.3	6.9	6.5	6.2	5.9	5.6	5.4	5.1	4.9	4.6	4.2	3.8	3.3	3.0	2.6	2.2	1.9
30	-4.6	+11.5	8.4	7.9	7.5	7.1	6.7	6.4	6.1	5.8	5.6	5.3	5.1	4.8	4.4	4.0	3.5	3.2	2.8	2.4	2.1
12 00	-4.4	+11.7	8.6	8.1	7.7	7.3	6.9	6.6	6.3	6.0	5.8	5.5	5.3	5.0	4.6	4.2	3.7	3.4	3.0	2.6	2.3
13°	-4.0	+12.0	8.9	8.4	8.0	7.6	7.3	7.0	6.7	6.4	6.1	5.9	5.6	5.4	4.9	4.5	4.1	3.7	3.3	3.0	2.6
14	-3.7	+12.3	9.2	8.7	8.3	7.9	7.6	7.3	7.0	6.7	6.4	6.2	5.9	5.7	5.2	4.8	4.4	4.0	3.6	3.3	2.9
15	-3.5	+12.6	9.5	9.0	8.6	8.2	7.8	7.5	7.2	6.9	6.7	6.4	6.2	5.9	5.5	5.0	4.6	4.2	3.9	3.5	3.2
17	-3.0	+13.0	9.9	9.4	9.0	8.6	8.3	8.0	7.7	7.4	7.1	6.9	6.6	6.4	5.9	5.5	5.1	4.7	4.3	4.0	3.6
20	-2.5	+13.5	10.4	9.9	9.5	9.1	8.8	8.5	8.2	7.9	7.6	7.4	7.1	6.9	6.4	6.0	5.6	5.2	4.8	4.5	4.1
23	-2.2	+13.8	10.8	10.3	9.9	9.5	9.1	8.8	8.5	8.2	8.0	7.7	7.5	7.2	6.8	6.3	5.9	5.5	5.2	4.8	4.5
26	-1.9	+14.1	11.1	10.6	10.2	9.8	9.4	9.1	8.8	8.5	8.3	8.0	7.7	7.5	7.0	6.6	6.2	5.8	5.5	5.1	4.8
30	-1.6	+14.4	11.4	10.9	10.5	10.1	9.7	9.4	9.1	8.8	8.6	8.3	8.0	7.8	7.3	6.9	6.5	6.1	5.8	5.4	5.1
35	-1.3	+14.8	11.7	11.2	10.8	10.4	10.0	9.7	9.4	9.1	8.8	8.6	8.3	8.1	7.6	7.2	6.8	6.4	6.1	5.7	5.4
40	-1.1	+15.0	11.9	11.4	11.0	10.6	10.2	9.9	9.6	9.3	9.1	8.8	8.6	8.3	7.9	7.4	7.0	6.6	6.3	5.9	5.6
45	-0.9	+15.1	12.1	11.6	11.2	10.8	10.4	10.1	9.8	9.5	9.2	9.0	8.7	8.5	8.0	7.6	7.2	6.8	6.5	6.1	5.8
50	-0.7	+15.3	12.2	11.7	11.3	10.9	10.6	10.3	10.0	9.7	9.4	9.1	8.9	8.6	8.2	7.7	7.3	6.9	6.6	6.2	5.9
60	-0.5	+15.5	12.4	11.9	11.5	11.1	10.8	10.5	10.2	9.9	9.6	9.3	9.1	8.8	8.4	7.9	7.5	7.1	6.8	6.4	6.1
70	-0.4	+15.7	12.6	12.1	11.7	11.3	11.0	10.7	10.4	10.1	9.8	9.6	9.3	9.1	8.6	8.2	7.8	7.4	7.0	6.7	6.3
80	-0.2	+15.9	12.8	12.3	11.9	11.5	11.2	10.9	10.6	10.3	10.0	9.7	9.5	9.2	8.8	8.3	7.9	7.5	7.2	6.8	6.5
90	0	+16.0	12.9	12.4	12.0	11.6	11.3	11.0	10.7	10.4	10.1	9.9	9.6	9.4	8.9	8.5	8.1	7.7	7.3	7.0	6.6

Correcção para mês	Jan.	Fev.	Mar.	Abr.	Mai	Jun.	Jul.	Agos.	Set.	Out.	Nov.	Dez.	Correction of month
	+0.3	+0.2	+0.1	0	-0.1	-0.2	-0.2	-0.2	-0.1	+0.1	+0.2	+0.3	

Taboa IV

Correcção de alturas de estrelas ou planetas

Total correction of Stars or planets observed altitudes (Subtractiva)

Table IV

E	≠	0	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	16m	18m	20m	22m	24m	26m	28m
A			10'	13'	16'	20'	23'	26'	30'	33'	36'	39'	43'	46'	52'	59'	66'	72'	79'	85'	92'
8° 00'	-6.6	-6.6	9.6	10.1	10.5	10.9	11.3	11.6	11.9	12.2	12.5	12.7	13.0	13.2	13.7	14.1	14.5	14.9	15.3	15.6	16.0
20	-6.3	-6.3	9.4	9.9	10.3	10.7	11.0	11.4	11.7	11.9	12.2	12.5	12.7	13.0	13.4	13.9	14.3	14.7	15.0	15.4	15.7
40	-6.1	-6.1	9.2	9.6	10.1	10.4	10.8	11.1	11.4	11.7	12.0	12.3	12.5	12.7	13.2	13.6	14.0	14.4	14.8	15.1	15.5
9 00	-5.9	-5.9	9.0	9.4	9.9	10.2	10.6	10.9	11.2	11.5	11.8	12.0	12.3	12.5	13.0	13.4	13.8	14.2	14.6	14.9	15.3
20	-5.7	-5.7	8.8	9.2	9.7	10.0	10.4	10.7	11.0	11.3	11.6	11.8	12.1	12.3	12.8	13.2	13.6	14.0	14.4	14.7	15.1
40	-5.5	-5.5	8.6	9.0	9.5	9.8	10.2	10.5	10.8	11.1	11.4	11.7	11.9	12.1	12.6	13.0	13.4	13.8	14.2	14.5	14.9
10 00	-5.3	-5.3	8.4	8.9	9.3	9.6	10.0	10.3	10.6	10.9	11.2	11.5	11.7	11.9	12.4	12.8	13.2	13.6	14.0	14.3	14.7
30	-5.1	-5.1	8.2	8.7	9.1	9.4	9.8	10.1	10.4	10.7	11.0	11.2	11.5	11.7	12.2	12.6	13.0	13.4	13.8	14.1	14.5
11 00	-4.9	-4.9	7.9	8.4	8.8	9.2	9.5	9.9	10.2	10.5	10.7	11.0	11.3	11.5	12.0	12.4	12.8	13.2	13.5	13.9	14.2
30	-4.7	-4.7	7.7	8.2	8.6	9.0	9.3	9.7	10.0	10.3	10.5	10.8	11.1	11.3	11.8	12.2	12.6	13.0	13.3	13.7	14.0
12 00	-4.5	-4.5	7.5	8.0	8.4	8.8	9.2	9.5	9.8	10.1	10.4	10.6	10.9	11.1	11.6	12.0	12.4	12.8	13.2	13.5	13.8
13°	-4.1	-4.1	7.2	7.7	8.1	8.5	8.8	9.1	9.4	9.7	10.0	10.3	10.5	10.8	11.2	11.6	12.1	12.4	12.8	13.2	13.5
14	-3.8	-3.8	6.9	7.4	7.8	8.2	8.5	8.8	9.1	9.4	9.7	10.0	10.2	10.5	10.9	11.3	11.8	12.2	12.5	12.9	13.2
15	-3.6	-3.6	6.6	7.1	7.5	7.9	8.3	8.6	8.9	9.2	9.5	9.7	10.0	10.2	10.7	11.1	11.5	11.9	12.3	12.6	13.0
17	-3.1	-3.1	6.2	6.7	7.1	7.5	7.8	8.2	8.5	8.7	9.0	9.3	9.5	9.8	10.2	10.7	11.1	11.5	11.8	12.2	12.5
20	-2.6	-2.6	5.7	6.2	6.6	7.0	7.3	7.7	8.0	8.2	8.5	8.8	9.0	9.3	9.7	10.2	10.6	11.0	11.3	11.7	12.0
23	-2.3	-2.3	5.3	5.8	6.2	6.6	7.0	7.3	7.6	7.9	8.2	8.4	8.7	8.9	9.4	9.8	10.2	10.6	11.0	11.3	11.7
26	-2.0	-2.0	5.0	5.5	5.9	6.3	6.7	7.0	7.3	7.6	7.9	8.1	8.4	8.6	9.1	9.5	9.9	10.3	10.7	11.0	11.4
30	-1.7	-1.7	4.7	5.2	5.6	6.0	6.4	6.7	7.0	7.3	7.6	7.8	8.1	8.3	8.8	9.2	9.6	10.0	10.4	10.7	11.1
35	-1.4	-1.4	4.4	4.9	5.3	5.7	6.1	6.4	6.7	7.0	7.3	7.5	7.8	8.0	8.5	8.9	9.3	9.7	10.1	10.4	10.8
40	-1.2	-1.2	4.2	4.7	5.1	5.5	5.8	6.2	6.5	6.8	7.0	7.3	7.6	7.8	8.3	8.7	9.1	9.5	9.8	10.2	10.5
45	-1.0	-1.0	4.0	4.5	4.9	5.3	5.7	6.0	6.3	6.6	6.9	7.1	7.4	7.6	8.1	8.5	8.9	9.3	9.7	10.0	10.4
50	-0.8	-0.8	3.9	4.4	4.8	5.2	5.5	5.8	6.1	6.4	6.7	7.0	7.2	7.5	7.9	8.4	8.8	9.2	9.5	9.9	10.2
60	-0.6	-0.6	3.7	4.2	4.6	5.0	5.3	5.6	5.9	6.2	6.5	6.8	7.0	7.3	7.7	8.2	8.6	9.0	9.3	9.7	10.0
70	-0.4	-0.4	3.4	3.9	4.3	4.7	5.0	5.4	5.7	6.0	6.2	6.5	6.8	7.0	7.5	7.9	8.3	8.7	9.0	9.4	9.7
80	-0.2	-0.2	3.3	3.8	4.2	4.6	4.9	5.2	5.5	5.8	6.1	6.4	6.6	6.9	7.3	7.8	8.2	8.6	8.9	9.3	9.6
90	0	0	3.1	3.6	4.0	4.3	4.7	5.0	5.3	5.6	5.9	6.2	6.4	6.6	7.1	7.5	7.9	8.3	8.7	9.0	9.4

Nota: As colunas marcadas com o sinal ≠ são para as alturas observadas em sextante G. Coutinho ou horizonte artificial
The columns marked with ≠ are only to be used for altitudes observed on Bubble Sextant

Taboa V

Taboa de Depressão—Table of Dip

(subtractiva)

m	40	50	75	100	125	150	175	200	250	300	350
f	131	164	246	328	410	492	574	656	820	984	1148
Dip	11.3	12.6	15.4	17.8	19.9	21.8	23.5	25.1	28.1	30.8	33.2

	A ph	10°	15°	19°	22°	25°	27°	29°	31°	33°	35°	37°	39°	41°	43°	45°	46°	47°	48°	49°	50°
		10°	15°	19°	22°	25°	27°	29°	31°	33°	35°	37°	39°	41°	43°	45°	46°	47°	48°	49°	50°
add.+	54	28.1	28.9	28.5	27.9	27.1	26.5	25.7	24.9	24.1	23.1	22.1	21.0	19.9	18.7	17.5	16.8	16.2	15.5	14.9	14.2
	55	28.8	29.5	29.2	28.6	27.8	27.1	26.3	25.5	24.6	23.7	22.6	21.5	20.4	19.2	17.9	17.3	16.6	15.9	15.2	14.5
	56	29.5	30.2	29.9	29.3	28.4	27.7	27.0	26.1	25.2	24.2	23.2	22.0	20.9	19.6	18.4	17.7	17.0	16.3	15.6	14.9
	57	30.3	30.9	30.6	29.9	29.0	28.3	27.6	26.7	25.8	24.8	23.7	22.6	21.4	20.1	18.8	18.1	17.4	16.7	16.0	15.3
	58	31.0	31.6	31.3	30.6	29.7	29.0	28.2	27.3	26.3	25.3	24.2	23.1	21.8	20.6	19.2	18.5	17.8	17.1	16.4	15.6
	59	31.7	32.3	31.9	31.2	30.3	29.6	28.8	27.9	26.9	25.9	24.8	23.6	22.3	21.0	19.7	19.0	18.2	17.5	16.8	16.0
	60	32.4	33.0	32.6	31.9	30.9	30.2	29.4	28.5	27.5	26.4	25.3	24.1	22.8	21.5	20.1	19.4	18.6	17.9	17.1	16.4
	61	33.1	33.7	33.2	32.5	31.6	30.8	30.0	29.0	28.0	27.0	25.8	24.6	23.3	21.9	20.5	19.8	19.1	18.3	17.5	16.7
		51°	52°	53°	54°	55°	56°	57°	58°	59°	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
	54	13.5	12.8	12.0	11.3	10.6	9.8	9.0	8.3	7.5	6.7	5.9	5.1	4.3	3.5	2.6	1.8	0.9	0.1	-0.8	-1.6
add.+	55	13.8	13.1	12.4	11.6	10.9	10.1	9.3	8.6	7.7	6.9	6.1	5.3	4.5	3.6	2.8	1.9	1.1	0.2	-0.7	-1.5
	56	14.2	13.4	12.7	11.9	11.2	10.4	9.6	8.8	8.0	7.2	6.3	5.5	4.6	3.8	2.9	2.1	1.2	0.3	-0.6	-1.5
	57	14.5	13.8	13.0	12.2	11.5	10.7	9.9	9.0	8.2	7.4	6.5	5.7	4.8	4.0	3.1	2.2	1.3	0.4	-0.5	-1.4
	58	14.9	14.1	13.3	12.5	11.8	10.9	10.1	9.3	8.5	7.6	6.7	5.9	5.0	4.1	3.2	2.3	1.4	0.5	-0.4	-1.3
	59	15.2	14.5	13.7	12.9	12.1	11.2	10.4	9.6	8.7	7.8	7.0	6.1	5.2	4.3	3.4	2.5	1.5	0.6	-0.3	-1.3
	60	15.6	14.8	14.0	13.2	12.4	11.5	10.7	9.8	8.9	8.1	7.2	6.3	5.4	4.5	3.5	2.6	1.7	0.7	-0.3	-1.2
	61	16.0	15.2	14.3	13.5	12.7	11.8	10.9	10.1	9.2	8.3	7.4	6.5	5.5	4.6	3.7	2.7	1.8	0.8	-0.2	-1.1
		71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
	54	2.5	3.4	4.2	5.1	6.0	6.9	7.8	8.7	9.6	10.5	11.4	12.4	13.3	14.2	15.1	16.1	17.0	17.9	18.8	19.6
sub.-	55	2.4	3.3	4.2	5.1	6.0	7.0	7.9	8.8	9.7	10.6	11.6	12.5	13.4	14.4	15.3	16.3	17.2	18.1	19.1	19.9
	56	2.4	3.3	4.2	5.1	6.0	7.0	7.9	8.9	9.8	10.7	11.7	12.6	13.6	14.5	15.5	16.5	17.4	18.4	19.3	20.2
	57	2.3	3.3	4.2	5.1	6.0	7.0	8.0	8.9	9.9	10.8	11.8	12.8	13.7	14.7	15.7	16.7	17.6	18.6	19.6	20.4
	58	2.3	3.2	4.2	5.1	6.1	7.0	8.0	9.0	10.0	10.9	11.9	12.9	13.9	14.9	15.9	16.9	17.9	18.8	19.8	20.7
	59	2.2	3.2	4.2	5.1	6.1	7.1	8.1	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.1	18.1	19.1	20.1	21.0
	60	2.2	3.2	4.2	5.1	6.1	7.1	8.1	9.1	10.1	11.1	12.2	13.2	14.2	15.2	16.2	17.3	18.3	19.3	20.4	21.3
	61	2.1	3.1	4.1	5.1	6.1	7.1	8.2	9.2	10.2	11.2	12.3	13.3	14.3	15.4	16.4	17.5	18.5	19.5	20.6	21.4
		71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
	54	2.5	3.4	4.2	5.1	6.0	6.9	7.8	8.7	9.6	10.5	11.4	12.4	13.3	14.2	15.1	16.1	17.0	17.9	18.8	19.6

	A ph	10°	15°	19°	22°	25°	27°	29°	31°	33°	35°	37°	39°	41°	43°	45°	46°	47°	48°	49°	50°
		10°	15°	19°	22°	25°	27°	29°	31°	33°	35°	37°	39°	41°	43°	45°	46°	47°	48°	49°	50°
add.+	54	57.6	58.3	58.0	57.4	56.6	56.0	55.2	54.4	53.5	52.6	51.6	50.5	49.4	48.2	47.0	46.3	45.7	45.0	44.3	43.6
	55	58.8	59.6	59.2	58.6	57.8	57.1	56.4	55.5	54.6	53.7	52.6	51.6	50.4	49.2	47.9	47.3	46.6	45.9	45.3	44.5
	56	60.1	60.8	60.4	59.8	59.0	58.3	57.5	56.7	55.8	54.8	53.7	52.6	51.4	50.2	48.9	48.2	47.6	46.9	46.2	45.5
	57	61.4	62.1	61.7	61.0	60.2	59.5	58.7	57.8	56.9	55.9	54.8	53.7	52.5	51.2	49.9	49.2	48.5	47.9	47.1	46.4
	58	62.6	63.3	62.9	62.2	61.4	60.6	59.8	59.0	58.0	57.0	55.9	54.7	53.5	52.2	50.9	50.2	49.5	48.8	48.0	47.3
	59	63.9	64.5	64.1	63.4	62.5	61.8	61.0	60.1	59.1	58.1	57.0	55.8	54.5	53.2	51.9	51.2	50.4	49.7	49.0	48.2
	60	65.2	65.8	65.3	64.7	63.7	63.0	62.1	61.2	60.2	59.2	58.0	56.8	55.5	54.2	52.9	52.1	51.4	50.7	49.9	49.1
	61	66.4	67.0	66.5	65.9	64.9	64.1	63.3	62.3	61.3	60.3	59.1	57.9	56.6	55.2	53.8	53.1	52.4	51.6	50.8	50.0
		51°	52°	53°	54°	55°	56°	57°	58°	59°	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
	54	42.9	42.2	41.5	40.8	40.0	39.3	38.5	37.7	37.0	36.2	35.4	34.6	33.8	32.9	32.1	31.3	30.4	29.6	28.7	27.9
add.+	55	43.8	43.1	42.4	41.6	40.9	40.1	39.3	38.6	37.8	37.0	36.1	35.3	34.5	33.7	32.8	32.0	31.1	30.2	29.4	28.5
	56	44.7	44.0	43.3	42.5	41.7	40.9	40.1	39.3	38.5	37.7	36.9	36.0	35.2	34.4	33.5	32.6	31.8	30.9	30.0	29.1
	57	45.6	44.9	44.1	43.4	42.6	41.8	41.0	40.2	39.3	38.5	37.7	36.8	35.9	35.1	34.2	33.3	32.4	31.5	30.6	29.7
	58	46.5	45.8	45.0	44.2	43.4	42.6	41.8	41.0	40.1	39.3	38.4	37.5	36.6	35.7	34.8	33.9	33.0	32.1	31.2	30.3
	59	47.4	46.7	45.9	45.1	44.3	43.4	42.6	41.8	40.9	40.0	39.2	38.3	37.4	36.5	35.6	34.7	33.8	32.8	31.9	30.9
	60	48.3	47.6	46.8	45.9	45.1	44.3	43.4	42.6	41.7	40.8	39.9	39.0	38.1	37.2	36.3	35.4	34.4	33.5	32.5	31.5
	61	49.3	48.5	47.6	46.8	46.0	45.1	44.2	43.4	42.5	41.6	40.7	39.8	38.8	37.9	37.0	36.0	35.1	34.1	33.1	32.2
		71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
	54	27.0	26.1	25.2	24.4	23.5	22.6	21.7	20.8	19.9	19.0	18.0	17.1	16.2	15.3	14.4	13.4	12.5	11.6	10.7	10.1
add.+	55	27.6	26.7	25.8	24.9	24.0	23.1	22.2	21.2	20.3	19.4	18.5	17.5	16.6	15.7	14.7	13.8	12.8	11.9	11.0	10.3
	56	28.2	27.3	26.4	25.4	24.5	23.6	22.7	21.7	20.8	19.8	18.9	17.9	17.0	16.0	15.1	14.1	13.2	12.2	11.2	10.6
	57	28.8	27.9	26.9	26.0	25.1	24.1	23.2	22.2	21.2	20.3	19.3	18.4	17.4	16.4	15.4	14.5	13.5	12.5	11.5	10.9
	58	29.4	28.4	27.5	26.5	25.5	24.6	23.7	22.7	21.7	20.7	19.8	18.8	17.8	16.8	15.8	14.8	13.8	12.8	11.8	11.2
	59	30.0	29.0	28.0	27.1	26.1	25.1	24.2	23.2	22.2	21.2	20.2	19.2	18.2	17.2	16.2	15.2	14.1	13.1	12.1	11.5
	60	30.6	29.6	28.6	27.6	26.6	25.7	24.7	23.6	22.6	21.6	20.6	19.6	18.6	17.6	16.5	15.5	14.5	13.4	12.4	11.8
	61	31.2	30.2	29.2	28.2	27.2	26.2	25.1	24.1	23.1	22.1	21.0	20.0	19.0	17.9	16.9	15.8	14.8	13.8	12.7	12.0
		71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
	54	27.0	26.1	25.2	24.4	23.5	22.6	21.7	20.8	19.9	19.0	18.0	17.1	16.2	15.3	14.4	13.4	12.5	11.6	10.7	10.1

Correcção para elevação

Height of eye correction

O	3 ^m	4 ^m	5 ^m	6 ^m	7 ^m	8 ^m	9 ^m	10 ^m	11 ^m	12 ^m	13 ^m	14 ^m	15 ^m	16 ^m	17 ^m	18 ^m	20 ^m	22 ^m	24 ^m	26 ^m	28 ^m
	10'	13'	16'	20'	23'	26'	30'	33'	36'	39'	43'	46'	49'	52'	56'	59'	66'	72'	79'	85'	92'
+	+	+	+	+																	
5.0	1.9	1.5	1.0	0.7	0.3	0	0.3	0.6	0.9	1.2	1.4	1.6	1.9	2.1	2.3	2.5	2.9	3.3	3.7	4.0	4.4

Correcção aos Azimuths do Radio
Correction to the Radio Bearings

Taboa VIII

Table VIII

\angle Im	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	18°	20°	22°	24°	26°	28°	30°
5°	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.0	1.1	1.2	1.3
10	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.9	2.1	2.3	2.4	2.6
15	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.1	2.3	2.6	2.8	3.1	3.4	3.6	3.9
20	0.3	0.5	0.7	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.1	2.2	2.4	2.6	2.7	3.1	3.4	3.8	4.1	4.4	4.8	5.1
24	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.1	3.3	3.7	4.1	4.5	4.9	5.3	5.7	6.1
28	0.5	0.7	0.9	1.2	1.4	1.6	1.9	2.1	2.3	2.6	2.8	3.0	3.3	3.5	3.8	4.2	4.7	5.2	5.6	6.1	6.6	7.0
32	0.5	0.8	1.1	1.3	1.6	1.9	2.1	2.4	2.6	2.9	3.2	3.4	3.7	4.0	4.2	4.8	5.3	5.8	6.4	6.9	7.4	7.9
36	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.6	2.9	3.2	3.5	3.8	4.1	4.4	4.7	5.3	5.9	6.5	7.1	7.6	8.2	8.8
40	0.6	1.0	1.3	1.6	1.9	2.3	2.6	2.9	3.2	3.5	3.9	4.2	4.5	4.8	5.1	5.8	6.4	7.1	7.7	8.4	9.0	9.6
44	0.7	1.0	1.4	1.7	2.1	2.4	2.8	3.1	3.5	3.8	4.2	4.5	4.9	5.2	5.6	6.3	6.9	7.6	8.3	9.0	9.7	10.4
48	0.7	1.1	1.5	1.9	2.2	2.6	3.0	3.3	3.7	4.1	4.5	4.8	5.2	5.6	6.0	6.7	7.4	8.2	8.9	9.7	10.4	11.1
52	0.8	1.2	1.6	2.0	2.4	2.8	3.2	3.5	3.9	4.3	4.7	5.1	5.5	5.9	6.3	7.1	7.9	8.7	9.5	10.2	11.0	11.8
56	0.8	1.2	1.7	2.1	2.5	2.9	3.3	3.7	4.1	4.6	5.0	5.4	5.8	6.2	6.6	7.5	8.3	9.1	9.9	10.8	11.6	12.4
60	0.9	1.3	1.7	2.2	2.6	3.0	3.5	3.9	4.3	4.8	5.2	5.6	6.1	6.5	6.9	7.8	8.7	9.5	10.4	11.3	12.1	13.0

Sendo I-m N { Estação a E do navio — correcção subtractiva
» a W do » — » additiva


When I-m N { Shore station to East of the boat — corr. subtractive
» » » West » » » — » additive

Sendo I-m S { Estação a E do navio — correcção additiva
» a W do » — » subtractiva

When I-m S { Shore station to East of the boat — corr. additive
» » » West » » » — » subtractive

Para estas regras, considera-se sempre o Z do Rádio de 0° a 360° e na carta é sempre a partir da estação de terra que se traça o Z

For these rules, the radio bearing must always be considered from 0° to 360°; on the chart, the bearing is always drawn from shore station.

(aditiva)  Correção das alturas da lua observadas em sextante systema G. Coutinho (additive)
Taboa IX Moon's correction for the observed altitudes on Bubble Sextant Table IX

	\angle ph	10°	15°	19°	22°	25°	27°	29°	31°	33°	35°	37°	39°	41°	43°	45°	46°	47°	48°	49°	50°
add. +	54°	47.9	48.6	48.3	47.7	46.9	46.2	45.5	44.7	43.8	42.9	41.8	40.8	39.6	38.5	37.2	36.6	35.9	35.3	34.6	33.9
	55	48.8	49.6	49.2	48.6	47.8	47.1	46.4	45.5	44.6	43.7	42.6	41.5	40.4	39.2	37.9	37.3	36.6	35.9	35.3	34.5
	56	49.8	50.5	50.2	49.5	48.7	47.8	46.9	45.9	44.9	43.9	42.8	41.7	40.5	39.3	37.9	37.3	36.6	35.9	35.2	34.4
	57	50.8	51.5	51.1	50.5	49.6	48.6	47.6	46.6	45.5	44.4	43.3	42.1	40.9	39.6	38.2	37.5	36.8	36.1	35.4	34.6
	58	51.8	52.5	52.1	51.4	50.5	49.5	48.4	47.3	46.2	45.1	43.9	42.7	41.4	40.1	38.7	37.9	37.2	36.5	35.8	35.0
	59	52.8	53.4	53.0	52.3	51.4	50.3	49.2	48.0	46.8	45.6	44.4	43.1	41.8	40.4	38.9	38.1	37.4	36.7	36.0	35.2
	60	53.8	54.4	53.9	53.2	52.3	51.2	50.0	48.8	47.5	46.3	45.0	43.7	42.3	40.9	39.3	38.5	37.8	37.1	36.4	35.6
	61	54.8	55.4	54.9	54.2	53.2	52.1	50.9	49.6	48.3	47.0	45.7	44.3	42.9	41.4	40.0	39.2	38.5	37.8	37.1	36.3
		51°	52°	53°	54°	55°	56°	57°	58°	59°	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
	54	33.2	32.5	31.8	31.0	30.3	29.5	28.8	28.0	27.2	26.4	25.6	24.8	24.0	23.2	22.4	21.5	20.7	19.8	19.0	18.1
	55	33.8	33.1	32.4	31.6	30.9	30.1	29.3	28.5	27.7	26.9	26.1	25.3	24.5	23.6	22.8	21.9	21.1	20.2	19.3	18.5
	56	34.5	33.7	33.0	32.2	31.4	30.6	29.8	29.0	28.2	27.4	26.6	25.8	24.9	24.1	23.2	22.3	21.5	20.6	19.7	18.8
	57	35.1	34.3	33.6	32.8	32.0	31.2	30.4	29.6	28.8	27.9	27.1	26.3	25.4	24.5	23.6	22.7	21.9	21.0	20.1	19.1
	58	35.7	35.0	34.2	33.4	32.6	31.8	31.0	30.2	29.4	28.5	27.7	26.8	25.9	25.0	24.1	23.2	22.3	21.4	20.5	19.5
	59	36.3	35.6	34.8	34.0	33.2	32.4	31.6	30.8	29.9	29.1	28.2	27.3	26.4	25.5	24.5	23.6	22.7	21.8	20.9	19.8
	60	37.0	36.2	35.4	34.6	33.8	33.0	32.2	31.4	30.5	29.7	28.8	27.9	27.0	26.1	25.1	24.2	23.3	22.4	21.5	20.5
	61	37.6	36.8	36.0	35.2	34.4	33.6	32.8	31.9	31.1	30.2	29.3	28.4	27.5	26.5	25.6	24.6	23.7	22.8	21.9	20.9
add. +		71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
	54	17.2	16.4	15.5	14.6	13.7	12.8	11.9	11.0	10.1	9.2	8.3	7.4	6.5	5.5	4.6	3.7	2.8	1.8	0.9	0
	55	17.6	16.7	15.8	14.9	14.0	13.1	12.1	11.2	10.3	9.4	8.4	7.5	6.6	5.6	4.7	3.8	2.8	1.9	0.9	0
	56	17.9	17.0	16.1	15.2	14.2	13.3	12.4	11.4	10.5	9.5	8.6	7.7	6.7	5.7	4.8	3.8	2.9	1.9	1.0	0
	57	18.2	17.3	16.4	15.4	14.5	13.5	12.6	11.6	10.7	9.7	8.8	7.8	6.8	5.8	4.9	3.9	2.9	1.9	1.0	0
	58	18.5	17.6	16.7	15.7	14.7	13.8	12.8	11.8	10.9	9.9	8.9	7.9	6.9	6.0	5.0	4.0	3.0	2.0	1.0	0
	59	18.9	17.9	16.9	16.0	15.0	14.0	13.0	12.1	11.1	10.1	9.1	8.1	7.1	6.1	5.1	4.0	3.0	2.0	1.0	0
	60	19.2	18.2	17.2	16.3	15.3	14.3	13.3	12.3	11.3	10.2	9.2	8.2	7.2	6.2	5.2	4.1	3.1	2.1	1.0	0
	61	19.5	18.5	17.5	16.5	15.5	14.5	13.5	12.5	11.5	10.4	9.4	8.3	7.3	6.3	5.2	4.2	3.1	2.1	1.0	0

E

Decimos de Minutos
Tenths of Minutes

1.0
.9
.8
.7
.6
.5
.4
.3
.2
.1

Longitude E

0'	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
45	46	47	48	49	50	51	52	53	54	55	56	57	58	59

Segundos de tempo

S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
0.0	4.0	8.0	12.0	16.0	20.0	24.0	28.0	32.0	36.0	40.0	44.0	48.0	52.0	56.0	0.0
0.4	4.4	8.4	12.4	16.4	20.4	24.4	28.4	32.4	36.4	40.4	44.4	48.4	52.4	56.4	.1
0.8	4.8	8.8	12.8	16.8	20.8	24.8	28.8	32.8	36.8	40.8	44.8	48.8	52.8	56.8	.2
1.2	5.2	9.2	13.2	17.2	21.2	25.2	29.2	33.2	37.2	41.2	45.2	49.2	53.2	57.2	.3
1.6	5.6	9.6	13.6	17.6	21.6	25.6	29.6	33.6	37.6	41.6	45.6	49.6	53.6	57.6	.4
2.0	6.0	10.0	14.0	18.0	22.0	26.0	30.0	34.0	38.0	42.0	46.0	50.0	54.0	58.0	.5
2.4	6.4	10.4	14.4	18.4	22.4	26.4	30.4	34.4	38.4	42.4	46.4	50.4	54.4	58.4	.6
2.8	6.8	10.8	14.8	18.8	22.8	26.8	30.8	34.8	38.8	42.8	46.8	50.8	54.8	58.8	.7
3.2	7.2	11.2	15.2	19.2	23.2	27.2	31.2	35.2	39.2	43.2	47.2	51.2	55.2	59.2	.8
3.6	7.6	11.6	15.6	19.6	23.6	27.6	31.6	35.6	39.6	43.6	47.6	51.6	55.6	59.6	.9

Seconds of time

14'	13'	12'	11'	10'	9'	8'	7'	6'	5'	4'	3'	2'	1'	0'
29	28	27	26	25	24	23	22	21	20	19	18	17	16	15
44	43	42	41	40	39	38	37	36	35	34	33	32	31	30
59	58	57	56	55	54	53	52	51	50	49	48	47	46	45

Minutos d'arco E

Minutes of arc E

Longitude W

0.0
.1
.2
.3
.4
.5
.6
.7
.8
.9

Tenths of Minutes
Decimos de Minutos

W

Longitude W { parte de cima e margem direita
upper part and right hand side

Longitude E { parte de baixo e margem esquerda
lower part and left hand side

Exemplo } $h \vee Gr = 5^h 36^m 27.^s 6$ $L. e. = 24.^o 18.' 6 W$
Longitude W } $L. a. = 1. 37. 27. 6 : W$ $L. a. = 24. 21. 9 W$
 } $H \vee l = 3. 59.$ $\diamond 1.^h 3.7^m 27.^s 6 W$

Exemplo } $h \vee Gr = 18.^h 22.^m 49.^s 2$ $L. e. = 40.^o 30.' 5 E$
Longitude E } $L. a. = 2. 42. 10. 8 : E$ $L. a. = 40. 32. 7 E$
 } $H \vee l = 20. 05.$ $\diamond 2.^h 42.^m 10.^s 8 E$

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	1.0	0.0	61	61.0	1.1	121	121.0	2.1	181	181.0	3.2	241	241.0	4.2	301	301.0	5.3
2	2.0	0.0	62	62.0	1.1	122	122.0	2.1	182	182.0	3.2	242	242.0	4.2	302	302.0	5.3
3	3.0	0.1	63	63.0	1.1	123	123.0	2.1	183	183.0	3.2	243	243.0	4.2	303	303.0	5.3
4	4.0	0.1	64	64.0	1.1	124	124.0	2.2	184	184.0	3.2	244	244.0	4.3	304	304.0	5.3
5	5.0	0.1	65	65.0	1.1	125	125.0	2.2	185	185.0	3.2	245	245.0	4.3	305	305.0	5.3
6	6.0	0.1	66	66.0	1.2	126	126.0	2.2	186	186.0	3.2	246	246.0	4.3	306	306.0	5.3
7	7.0	0.1	67	67.0	1.2	127	127.0	2.2	187	187.0	3.3	247	247.0	4.3	307	307.0	5.4
8	8.0	0.1	68	68.0	1.2	128	128.0	2.2	188	188.0	3.3	248	248.0	4.3	308	308.0	5.4
9	9.0	0.2	69	69.0	1.2	129	129.0	2.3	189	189.0	3.3	249	249.0	4.3	309	309.0	5.4
10	10.0	0.2	70	70.0	1.2	130	130.0	2.3	190	190.0	3.3	250	250.0	4.4	310	310.0	5.4
11	11.0	0.2	71	71.0	1.2	131	131.0	2.3	191	191.0	3.3	251	251.0	4.4	311	311.0	5.4
12	12.0	0.2	72	72.0	1.3	132	132.0	2.3	192	192.0	3.4	252	252.0	4.4	312	312.0	5.4
13	13.0	0.2	73	73.0	1.3	133	133.0	2.3	193	193.0	3.4	253	253.0	4.4	313	313.0	5.5
14	14.0	0.2	74	74.0	1.3	134	134.0	2.3	194	194.0	3.4	254	254.0	4.4	314	314.0	5.5
15	15.0	0.3	75	75.0	1.3	135	135.0	2.4	195	195.0	3.4	255	255.0	4.5	315	315.0	5.5
16	16.0	0.3	76	76.0	1.3	136	136.0	2.4	196	196.0	3.4	256	256.0	4.5	316	316.0	5.5
17	17.0	0.3	77	77.0	1.3	137	137.0	2.4	197	197.0	3.4	257	257.0	4.5	317	317.0	5.5
18	18.0	0.3	78	78.0	1.4	138	138.0	2.4	198	198.0	3.5	258	258.0	4.5	318	318.0	5.5
19	19.0	0.3	79	79.0	1.4	139	139.0	2.4	199	199.0	3.5	259	259.0	4.5	319	319.0	5.6
20	20.0	0.3	80	80.0	1.4	140	140.0	2.4	200	200.0	3.5	260	260.0	4.5	320	320.0	5.6
21	21.0	0.4	81	81.0	1.4	141	141.0	2.5	201	201.0	3.5	261	261.0	4.6	321	321.0	5.6
22	22.0	0.4	82	82.0	1.4	142	142.0	2.5	202	202.0	3.5	262	262.0	4.6	322	322.0	5.6
23	23.0	0.4	83	83.0	1.4	143	143.0	2.5	203	203.0	3.5	263	263.0	4.6	323	323.0	5.6
24	24.0	0.4	84	84.0	1.5	144	144.0	2.5	204	204.0	3.6	264	264.0	4.6	324	324.0	5.7
25	25.0	0.4	85	85.0	1.5	145	145.0	2.5	205	205.0	3.6	265	265.0	4.6	325	325.0	5.7
26	26.0	0.5	86	86.0	1.5	146	146.0	2.5	206	206.0	3.6	266	266.0	4.6	326	326.0	5.7
27	27.0	0.5	87	87.0	1.5	147	147.0	2.6	207	207.0	3.6	267	267.0	4.7	327	327.0	5.7
28	28.0	0.5	88	88.0	1.5	148	148.0	2.6	208	208.0	3.6	268	268.0	4.7	328	328.0	5.7
29	29.0	0.5	89	89.0	1.6	149	149.0	2.6	209	209.0	3.6	269	269.0	4.7	329	328.9	5.7
30	30.0	0.5	90	90.0	1.6	150	150.0	2.6	210	210.0	3.7	270	270.0	4.7	330	329.9	5.8
31	31.0	0.5	91	91.0	1.6	151	151.0	2.6	211	211.0	3.7	271	271.0	4.7	331	330.9	5.8
32	32.0	0.6	92	92.0	1.6	152	152.0	2.7	212	212.0	3.7	272	272.0	4.7	332	331.9	5.8
33	33.0	0.6	93	93.0	1.6	153	153.0	2.7	213	213.0	3.7	273	273.0	4.8	333	332.9	5.8
34	34.0	0.6	94	94.0	1.6	154	154.0	2.7	214	214.0	3.7	274	274.0	4.8	334	333.9	5.8
35	35.0	0.6	95	95.0	1.7	155	155.0	2.7	215	215.0	3.8	275	275.0	4.8	335	334.9	5.8
36	36.0	0.6	96	96.0	1.7	156	156.0	2.7	216	216.0	3.8	276	276.0	4.8	336	335.9	5.9
37	37.0	0.6	97	97.0	1.7	157	157.0	2.7	217	217.0	3.8	277	277.0	4.8	337	336.9	5.9
38	38.0	0.7	98	98.0	1.7	158	158.0	2.8	218	218.0	3.8	278	278.0	4.9	338	337.9	5.9
39	39.0	0.7	99	99.0	1.7	159	159.0	2.8	219	219.0	3.8	279	279.0	4.9	339	338.9	5.9
40	40.0	0.7	100	100.0	1.7	160	160.0	2.8	220	220.0	3.8	280	280.0	4.9	340	339.9	5.9
41	41.0	0.7	101	101.0	1.8	161	161.0	2.8	221	221.0	3.9	281	281.0	4.9	341	340.9	6.0
42	42.0	0.7	102	102.0	1.8	162	162.0	2.8	222	222.0	3.9	282	282.0	4.9	342	341.9	6.0
43	43.0	0.8	103	103.0	1.8	163	163.0	2.8	223	223.0	3.9	283	283.0	4.9	343	342.9	6.0
44	44.0	0.8	104	104.0	1.8	164	164.0	2.9	224	224.0	3.9	284	284.0	5.0	344	343.9	6.0
45	45.0	0.8	105	105.0	1.8	165	165.0	2.9	225	225.0	3.9	285	285.0	5.0	345	344.9	6.0
46	46.0	0.8	106	106.0	1.8	166	166.0	2.9	226	226.0	3.9	286	286.0	5.0	346	345.9	6.0
47	47.0	0.8	107	107.0	1.9	167	167.0	2.9	227	227.0	4.0	287	287.0	5.0	347	346.9	6.1
48	48.0	0.8	108	108.0	1.9	168	168.0	2.9	228	228.0	4.0	288	288.0	5.0	348	347.9	6.1
49	49.0	0.9	109	109.0	1.9	169	169.0	2.9	229	229.0	4.0	289	289.0	5.0	349	348.9	6.1
50	50.0	0.9	110	110.0	1.9	170	170.0	3.0	230	230.0	4.0	290	290.0	5.1	350	349.9	6.1
51	51.0	0.9	111	111.0	1.9	171	171.0	3.0	231	231.0	4.0	291	291.0	5.1	351	350.9	6.1
52	52.0	0.9	112	112.0	2.0	172	172.0	3.0	232	232.0	4.0	292	292.0	5.1	352	351.9	6.1
53	53.0	0.9	113	113.0	2.0	173	173.0	3.0	233	233.0	4.1	293	293.0	5.1	353	352.9	6.2
54	54.0	0.9	114	114.0	2.0	174	174.0	3.0	234	234.0	4.1	294	294.0	5.1	354	353.9	6.2
55	55.0	1.0	115	115.0	2.0	175	175.0	3.1	235	235.0	4.1	295	295.0	5.1	355	354.9	6.2
56	56.0	1.0	116	116.0	2.0	176	176.0	3.1	236	236.0	4.1	296	296.0	5.2	356	355.9	6.2
57	57.0	1.0	117	117.0	2.0	177	177.0	3.1	237	237.0	4.1	297	297.0	5.2	357	356.9	6.2
58	58.0	1.0	118	118.0	2.1	178	178.0	3.1	238	238.0	4.2	298	298.0	5.2	358	357.9	6.2
59	59.0	1.0	119	119.0	2.1	179	179.0	3.1	239	239.0	4.2	299	299.0	5.2	359	358.9	6.3
60	60.0	1.0	120	120.0	2.1	180	180.0	3.1	240	240.0	4.2	300	300.0	5.2	360	359.9	6.3
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	360·9	6·3	421	420·9	7·3	481	480·9	8·4	541	540·9	9·4	601	600·9	10·5	661	660·9	11·5
362	361·9	6·3	422	421·9	7·4	482	481·9	8·4	542	541·9	9·5	602	601·9	10·5	662	661·9	11·6
363	362·9	6·3	423	422·9	7·4	483	482·9	8·4	543	542·9	9·5	603	602·9	10·5	663	662·9	11·6
364	363·9	6·4	424	423·9	7·4	484	483·9	8·5	544	543·9	9·5	604	603·9	10·5	664	663·9	11·6
365	364·9	6·4	425	424·9	7·4	485	484·9	8·5	545	544·9	9·5	605	604·9	10·6	665	664·9	11·6
366	365·9	6·4	426	425·9	7·4	486	485·9	8·5	546	545·9	9·5	606	605·9	10·6	666	665·9	11·6
367	366·9	6·4	427	426·9	7·5	487	486·9	8·5	547	546·9	9·5	607	606·9	10·6	667	666·9	11·6
368	367·9	6·4	428	427·9	7·5	488	487·9	8·5	548	547·9	9·6	608	607·9	10·6	668	667·9	11·7
369	368·9	6·4	429	428·9	7·5	489	488·9	8·5	549	548·9	9·6	609	608·9	10·6	669	668·9	11·7
370	369·9	6·5	430	429·9	7·5	490	489·9	8·6	550	549·9	9·6	610	609·9	10·6	670	669·9	11·7
371	370·9	6·5	431	430·9	7·5	491	490·9	8·6	551	550·9	9·6	611	610·9	10·7	671	670·9	11·7
372	371·9	6·5	432	431·9	7·5	492	491·9	8·6	552	551·9	9·6	612	611·9	10·7	672	671·9	11·7
373	372·9	6·5	433	432·9	7·6	493	492·9	8·6	553	552·9	9·7	613	612·9	10·7	673	672·9	11·7
374	373·9	6·5	434	433·9	7·6	494	493·9	8·6	554	553·9	9·7	614	613·9	10·7	674	673·9	11·8
375	374·9	6·5	435	434·9	7·6	495	494·9	8·7	555	554·9	9·7	615	614·9	10·7	675	674·9	11·8
376	375·9	6·6	436	435·9	7·6	496	495·9	8·7	556	555·9	9·7	616	615·9	10·8	676	675·9	11·8
377	376·9	6·6	437	436·9	7·6	497	496·9	8·7	557	556·9	9·7	617	616·9	10·8	677	676·9	11·8
378	377·9	6·6	438	437·9	7·6	498	497·9	8·7	558	557·9	9·7	618	617·9	10·8	678	677·9	11·8
379	378·9	6·6	439	438·9	7·7	499	498·9	8·7	559	558·9	9·8	619	618·9	10·8	679	678·9	11·8
380	379·9	6·6	440	439·9	7·7	500	499·9	8·7	560	559·9	9·8	620	619·9	10·8	680	679·9	11·9
381	380·9	6·6	441	440·9	7·7	501	500·9	8·7	561	560·9	9·8	621	620·9	10·8	681	680·9	11·9
382	381·9	6·7	442	441·9	7·7	502	501·9	8·8	562	561·9	9·8	622	621·9	10·9	682	681·9	11·9
383	382·9	6·7	443	442·9	7·7	503	502·9	8·8	563	562·9	9·8	623	622·9	10·9	683	682·9	11·9
384	383·9	6·7	444	443·9	7·7	504	503·9	8·8	564	563·9	9·8	624	623·9	10·9	684	683·9	11·9
385	384·9	6·7	445	444·9	7·8	505	504·9	8·8	565	564·9	9·9	625	624·9	10·9	685	684·9	12·0
386	385·9	6·7	446	445·9	7·8	506	505·9	8·8	566	565·9	9·9	626	625·9	10·9	686	685·9	12·0
387	386·9	6·8	447	446·9	7·8	507	506·9	8·8	567	566·9	9·9	627	626·9	10·9	687	686·9	12·0
388	387·9	6·8	448	447·9	7·8	508	507·9	8·9	568	567·9	9·9	628	627·9	11·0	688	687·9	12·0
389	388·9	6·8	449	448·9	7·8	509	508·9	8·9	569	568·9	9·9	629	628·9	11·0	689	688·9	12·0
390	389·9	6·8	450	449·9	7·9	510	509·9	8·9	570	569·9	9·9	630	629·9	11·0	690	689·9	12·0
391	390·9	6·8	451	450·9	7·9	511	510·9	8·9	571	570·9	10·0	631	630·9	11·0	691	690·9	12·1
392	391·9	6·8	452	451·9	7·9	512	511·9	8·9	572	571·9	10·0	632	631·9	11·0	692	691·9	12·1
393	392·9	6·9	453	452·9	7·9	513	512·9	9·0	573	572·9	10·0	633	632·9	11·0	693	692·9	12·1
394	393·9	6·9	454	453·9	7·9	514	513·9	9·0	574	573·9	10·0	634	633·9	11·1	694	693·9	12·1
395	394·9	6·9	455	454·9	7·9	515	514·9	9·0	575	574·9	10·0	635	634·9	11·1	695	694·9	12·1
396	395·9	6·9	456	455·9	8·0	516	515·9	9·0	576	575·9	10·1	636	635·9	11·1	696	695·9	12·1
397	396·9	6·9	457	456·9	8·0	517	516·9	9·0	577	576·9	10·1	637	636·9	11·1	697	696·9	12·2
398	397·9	6·9	458	457·9	8·0	518	517·9	9·0	578	577·9	10·1	638	637·9	11·1	698	697·9	12·2
399	398·9	7·0	459	458·9	8·0	519	518·9	9·1	579	578·9	10·1	639	638·9	11·2	699	698·9	12·2
400	399·9	7·0	460	459·9	8·0	520	519·9	9·1	580	579·9	10·1	640	639·9	11·2	700	699·9	12·2
401	400·9	7·0	461	460·9	8·0	521	520·9	9·1	581	580·9	10·1	641	640·9	11·2	701	700·9	12·2
402	401·9	7·0	462	461·9	8·1	522	521·9	9·1	582	581·9	10·2	642	641·9	11·2	702	701·9	12·3
403	402·9	7·0	463	462·9	8·1	523	522·9	9·1	583	582·9	10·2	643	642·9	11·2	703	702·9	12·3
404	403·9	7·1	464	463·9	8·1	524	523·9	9·1	584	583·9	10·2	644	643·9	11·2	704	703·9	12·3
405	404·9	7·1	465	464·9	8·1	525	524·9	9·2	585	584·9	10·2	645	644·9	11·3	705	704·9	12·3
406	405·9	7·1	466	465·9	8·1	526	525·9	9·2	586	585·9	10·2	646	645·9	11·3	706	705·9	12·3
407	406·9	7·1	467	466·9	8·2	527	526·9	9·2	587	586·9	10·2	647	646·9	11·3	707	706·9	12·3
408	407·9	7·1	468	467·9	8·2	528	527·9	9·2	588	587·9	10·3	648	647·9	11·3	708	707·9	12·4
409	408·9	7·1	469	468·9	8·2	529	528·9	9·2	589	588·9	10·3	649	648·9	11·3	709	708·9	12·4
410	409·9	7·2	470	469·9	8·2	530	529·9	9·2	590	589·9	10·3	650	649·9	11·3	710	709·9	12·4
411	410·9	7·2	471	470·9	8·2	531	530·9	9·3	591	590·9	10·3	651	650·9	11·4	711	710·9	12·4
412	411·9	7·2	472	471·9	8·2	532	531·9	9·3	592	591·9	10·3	652	651·9	11·4	712	711·9	12·4
413	412·9	7·2	473	472·9	8·3	533	532·9	9·3	593	592·9	10·3	653	652·9	11·4	713	712·9	12·4
414	413·9	7·2	474	473·9	8·3	534	533·9	9·3	594	593·9	10·4	654	653·9	11·4	714	713·9	12·5
415	414·9	7·2	475	474·9	8·3	535	534·9	9·3	595	594·9	10·4	655	654·9	11·4	715	714·9	12·5
416	415·9	7·3	476	475·9	8·3	536	535·9	9·4	596	595·9	10·4	656	655·9	11·4	716	715·9	12·5
417	416·9	7·3	477	476·9	8·3	537	536·9	9·4	597	596·9	10·4	657	656·9	11·5	717	716·9	12·5
418	417·9	7·3	478	477·9	8·3	538	537·9	9·4	598	597·9	10·4	658	657·9	11·5	718	717·9	12·5
419	418·9	7·3	479	478·9	8·4	539	538·9	9·4	599	598·9	10·5	659	658·9	11·5	719	718·9	12·5
420	419·9	7·3	480	479·9	8·4	540	539·9	9·4	600	599·9	10·5	660	659·9	11·5	720	719·9	12·6

D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI
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D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep
1	1.0	0.0	61	61.0	2.1	121	120.9	4.2	181	180.9	6.3	241	240.9	8.4	301	300.8	10.5
2	2.0	0.1	62	62.0	2.2	122	121.9	4.3	182	181.9	6.4	242	241.9	8.4	302	301.8	10.5
3	3.0	0.1	63	63.0	2.2	123	122.9	4.3	183	182.9	6.4	243	242.9	8.5	303	302.8	10.6
4	4.0	0.1	64	64.0	2.2	124	123.9	4.3	184	183.9	6.4	244	243.9	8.5	304	303.8	10.6
5	5.0	0.2	65	65.0	2.3	125	124.9	4.4	185	184.9	6.5	245	244.9	8.6	305	304.8	10.6
6	6.0	0.2	66	66.0	2.3	126	125.9	4.4	186	185.9	6.5	246	245.9	8.6	306	305.8	10.7
7	7.0	0.2	67	67.0	2.3	127	126.9	4.4	187	186.9	6.5	247	246.8	8.6	307	306.8	10.7
8	8.0	0.3	68	68.0	2.4	128	127.9	4.5	188	187.9	6.6	248	247.8	8.7	308	307.8	10.7
9	9.0	0.3	69	69.0	2.4	129	128.9	4.5	189	188.9	6.6	249	248.8	8.7	309	308.8	10.8
10	10.0	0.3	70	70.0	2.4	130	129.9	4.5	190	189.9	6.6	250	249.8	8.7	310	309.8	10.8
11	11.0	0.4	71	71.0	2.5	131	130.9	4.6	191	190.9	6.7	251	250.8	8.8	311	310.8	10.9
12	12.0	0.4	72	72.0	2.5	132	131.9	4.6	192	191.9	6.7	252	251.8	8.8	312	311.8	10.9
13	13.0	0.5	73	73.0	2.5	133	132.9	4.6	193	192.9	6.7	253	252.8	8.8	313	312.8	10.9
14	14.0	0.5	74	74.0	2.6	134	133.9	4.7	194	193.9	6.8	254	253.8	8.9	314	313.8	11.0
15	15.0	0.5	75	75.0	2.6	135	134.9	4.7	195	194.9	6.8	255	254.8	8.9	315	314.8	11.0
16	16.0	0.6	76	76.0	2.7	136	135.9	4.7	196	195.9	6.8	256	255.8	8.9	316	315.8	11.0
17	17.0	0.6	77	77.0	2.7	137	136.9	4.8	197	196.9	6.9	257	256.8	9.0	317	316.8	11.1
18	18.0	0.6	78	78.0	2.7	138	137.9	4.8	198	197.9	6.9	258	257.8	9.0	318	317.8	11.1
19	19.0	0.7	79	79.0	2.8	139	138.9	4.9	199	198.9	6.9	259	258.8	9.0	319	318.8	11.1
20	20.0	0.7	80	80.0	2.8	140	139.9	4.9	200	199.9	7.0	260	259.8	9.1	320	319.8	11.2
21	21.0	0.7	81	81.0	2.8	141	140.9	4.9	201	200.9	7.0	261	260.8	9.1	321	320.8	11.2
22	22.0	0.8	82	82.0	2.9	142	141.9	5.0	202	201.9	7.0	262	261.8	9.1	322	321.8	11.2
23	23.0	0.8	83	83.0	2.9	143	142.9	5.0	203	202.9	7.1	263	262.8	9.2	323	322.8	11.3
24	24.0	0.8	84	83.9	2.9	144	143.9	5.0	204	203.9	7.1	264	263.8	9.2	324	323.8	11.3
25	25.0	0.9	85	84.9	3.0	145	144.9	5.1	205	204.9	7.2	265	264.8	9.2	325	324.8	11.3
26	26.0	0.9	86	85.9	3.0	146	145.9	5.1	206	205.9	7.2	266	265.8	9.3	326	325.8	11.4
27	27.0	0.9	87	86.9	3.0	147	146.9	5.1	207	206.9	7.2	267	266.8	9.3	327	326.8	11.4
28	28.0	1.0	88	87.9	3.1	148	147.9	5.2	208	207.9	7.3	268	267.8	9.4	328	327.8	11.4
29	29.0	1.0	89	88.9	3.1	149	148.9	5.2	209	208.9	7.3	269	268.8	9.4	329	328.8	11.5
30	30.0	1.0	90	89.9	3.1	150	149.9	5.2	210	209.9	7.3	270	269.8	9.4	330	329.8	11.5
31	31.0	1.1	91	90.9	3.2	151	150.9	5.3	211	210.9	7.4	271	270.8	9.5	331	330.8	11.6
32	32.0	1.1	92	91.9	3.2	152	151.9	5.3	212	211.9	7.4	272	271.8	9.5	332	331.8	11.6
33	33.0	1.2	93	92.9	3.2	153	152.9	5.3	213	212.9	7.4	273	272.8	9.5	333	332.8	11.6
34	34.0	1.2	94	93.9	3.3	154	153.9	5.4	214	213.9	7.5	274	273.8	9.6	334	333.8	11.7
35	35.0	1.2	95	94.9	3.3	155	154.9	5.4	215	214.9	7.5	275	274.8	9.6	335	334.8	11.7
36	36.0	1.3	96	95.9	3.4	156	155.9	5.4	216	215.9	7.5	276	275.8	9.6	336	335.8	11.7
37	37.0	1.3	97	96.9	3.4	157	156.9	5.5	217	216.9	7.6	277	276.8	9.7	337	336.8	11.8
38	38.0	1.3	98	97.9	3.4	158	157.9	5.5	218	217.9	7.6	278	277.8	9.7	338	337.8	11.8
39	39.0	1.4	99	98.9	3.5	159	158.9	5.5	219	218.9	7.6	279	278.8	9.7	339	338.8	11.8
40	40.0	1.4	100	99.9	3.5	160	159.9	5.6	220	219.9	7.7	280	279.8	9.8	340	339.8	11.9
41	41.0	1.4	101	100.9	3.5	161	160.9	5.6	221	220.9	7.7	281	280.8	9.8	341	340.8	11.9
42	42.0	1.5	102	101.9	3.6	162	161.9	5.7	222	221.9	7.7	282	281.8	9.8	342	341.8	11.9
43	43.0	1.5	103	102.9	3.6	163	162.9	5.7	223	222.9	7.8	283	282.8	9.9	343	342.8	12.0
44	44.0	1.5	104	103.9	3.6	164	163.9	5.7	224	223.9	7.8	284	283.8	9.9	344	343.8	12.0
45	45.0	1.6	105	104.9	3.7	165	164.9	5.8	225	224.9	7.9	285	284.8	9.9	345	344.8	12.0
46	46.0	1.6	106	105.9	3.7	166	165.9	5.8	226	225.9	7.9	286	285.8	10.0	346	345.8	12.1
47	47.0	1.6	107	106.9	3.7	167	166.9	5.8	227	226.9	7.9	287	286.8	10.0	347	346.8	12.1
48	48.0	1.7	108	107.9	3.8	168	167.9	5.9	228	227.9	8.0	288	287.8	10.1	348	347.8	12.1
49	49.0	1.7	109	108.9	3.8	169	168.9	5.9	229	228.9	8.0	289	288.8	10.1	349	348.8	12.2
50	50.0	1.7	110	109.9	3.8	170	169.9	5.9	230	229.9	8.0	290	289.8	10.1	350	349.8	12.2
51	51.0	1.8	111	110.9	3.9	171	170.9	6.0	231	230.9	8.1	291	290.8	10.2	351	350.8	12.2
52	52.0	1.8	112	111.9	3.9	172	171.9	6.0	232	231.9	8.1	292	291.8	10.2	352	351.8	12.3
53	53.0	1.8	113	112.9	3.9	173	172.9	6.0	233	232.9	8.1	293	292.8	10.2	353	352.8	12.3
54	54.0	1.9	114	113.9	4.0	174	173.9	6.1	234	233.9	8.2	294	293.8	10.3	354	353.8	12.4
55	55.0	1.9	115	114.9	4.0	175	174.9	6.1	235	234.9	8.2	295	294.8	10.3	355	354.8	12.4
56	56.0	2.0	116	115.9	4.0	176	175.9	6.1	236	235.9	8.2	296	295.8	10.3	356	355.8	12.4
57	57.0	2.0	117	116.9	4.1	177	176.9	6.2	237	236.9	8.3	297	296.8	10.4	357	356.8	12.5
58	58.0	2.0	118	117.9	4.1	178	177.9	6.2	238	237.9	8.3	298	297.8	10.4	358	357.8	12.5
59	59.0	2.1	119	118.9	4.2	179	178.9	6.2	239	238.9	8.3	299	298.8	10.4	359	358.8	12.5
60	60.0	2.1	120	119.9	4.2	180	179.9	6.3	240	239.9	8.4	300	299.8	10.5	360	359.8	12.6

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	360.8	12.6	421	420.7	14.7	481	480.7	16.8	541	540.7	18.9	601	600.6	21.0	661	660.6	23.1
362	361.8	12.6	422	421.7	14.7	482	481.7	16.8	542	541.7	18.9	602	601.6	21.0	662	661.6	23.1
363	362.8	12.7	423	422.7	14.8	483	482.7	16.9	543	542.7	19.0	603	602.6	21.0	663	662.6	23.1
364	363.8	12.7	424	423.7	14.8	484	483.7	16.9	544	543.7	19.0	604	603.6	21.1	664	663.6	23.2
365	364.8	12.7	425	424.7	14.8	485	484.7	16.9	545	544.7	19.0	605	604.6	21.1	665	664.6	23.2
366	365.8	12.8	426	425.7	14.9	486	485.7	17.0	546	545.7	19.1	606	605.6	21.1	666	665.6	23.2
367	366.8	12.8	427	426.7	14.9	487	486.7	17.0	547	546.7	19.1	607	606.6	21.2	667	666.6	23.3
368	367.8	12.8	428	427.7	14.9	488	487.7	17.0	548	547.7	19.1	608	607.6	21.2	668	667.6	23.3
369	368.8	12.9	429	428.7	15.0	489	488.7	17.1	549	548.7	19.2	609	608.6	21.3	669	668.6	23.3
370	369.8	12.9	430	429.7	15.0	490	489.7	17.1	550	549.7	19.2	610	609.6	21.3	670	669.6	23.4
371	370.8	12.9	431	430.7	15.0	491	490.7	17.1	551	550.7	19.2	611	610.6	21.3	671	670.6	23.4
372	371.8	13.0	432	431.7	15.1	492	491.7	17.2	552	551.7	19.3	612	611.6	21.4	672	671.6	23.5
373	372.8	13.0	433	432.7	15.1	493	492.7	17.2	553	552.7	19.3	613	612.6	21.4	673	672.6	23.5
374	373.8	13.1	434	433.7	15.1	494	493.7	17.2	554	553.7	19.3	614	613.6	21.4	674	673.6	23.5
375	374.8	13.1	435	434.7	15.2	495	494.7	17.3	555	554.7	19.4	615	614.6	21.5	675	674.6	23.6
376	375.8	13.1	436	435.7	15.2	496	495.7	17.3	556	555.7	19.4	616	615.6	21.5	676	675.6	23.6
377	376.8	13.2	437	436.7	15.3	497	496.7	17.3	557	556.7	19.4	617	616.6	21.5	677	676.6	23.6
378	377.8	13.2	438	437.7	15.3	498	497.7	17.4	558	557.7	19.5	618	617.6	21.6	678	677.6	23.7
379	378.8	13.2	439	438.7	15.3	499	498.7	17.4	559	558.7	19.5	619	618.6	21.6	679	678.6	23.7
380	379.8	13.3	440	439.7	15.4	500	499.7	17.4	560	559.7	19.5	620	619.6	21.6	680	679.6	23.7
381	380.8	13.3	441	440.7	15.4	501	500.7	17.5	561	560.7	19.6	621	620.6	21.7	681	680.6	23.8
382	381.8	13.3	442	441.7	15.4	502	501.7	17.5	562	561.7	19.6	622	621.6	21.7	682	681.6	23.8
383	382.8	13.4	443	442.7	15.5	503	502.7	17.6	563	562.7	19.6	623	622.6	21.7	683	682.6	23.8
384	383.8	13.4	444	443.7	15.5	504	503.7	17.6	564	563.7	19.7	624	623.6	21.8	684	683.6	23.9
385	384.8	13.4	445	444.7	15.5	505	504.7	17.6	565	564.7	19.7	625	624.6	21.8	685	684.6	23.9
386	385.8	13.5	446	445.7	15.6	506	505.7	17.7	566	565.7	19.8	626	625.6	21.8	686	685.6	23.9
387	386.8	13.5	447	446.7	15.6	507	506.7	17.7	567	566.7	19.8	627	626.6	21.9	687	686.6	24.0
388	387.8	13.5	448	447.7	15.6	508	507.7	17.7	568	567.7	19.8	628	627.6	21.9	688	687.6	24.0
389	388.8	13.6	449	448.7	15.7	509	508.7	17.8	569	568.7	19.9	629	628.6	22.0	689	688.6	24.0
390	389.8	13.6	450	449.7	15.7	510	509.7	17.8	570	569.7	19.9	630	629.6	22.0	690	689.6	24.1
391	390.8	13.6	451	450.7	15.7	511	510.7	17.8	571	570.7	19.9	631	630.6	22.0	691	690.6	24.1
392	391.8	13.7	452	451.7	15.8	512	511.7	17.9	572	571.7	20.0	632	631.6	22.1	692	691.6	24.2
393	392.8	13.7	453	452.7	15.8	513	512.7	17.9	573	572.7	20.0	633	632.6	22.1	693	692.6	24.2
394	393.8	13.8	454	453.7	15.8	514	513.7	17.9	574	573.7	20.0	634	633.6	22.1	694	693.6	24.2
395	394.8	13.8	455	454.7	15.9	515	514.7	18.0	575	574.6	20.1	635	634.6	22.2	695	694.6	24.3
396	395.8	13.8	456	455.7	15.9	516	515.7	18.0	576	575.6	20.1	636	635.6	22.2	696	695.6	24.3
397	396.8	13.9	457	456.7	15.9	517	516.7	18.0	577	576.6	20.1	637	636.6	22.2	697	696.6	24.3
398	397.8	13.9	458	457.7	16.0	518	517.7	18.1	578	577.6	20.2	638	637.6	22.3	698	697.6	24.4
399	398.8	13.9	459	458.7	16.0	519	518.7	18.1	579	578.6	20.2	639	638.6	22.3	699	698.6	24.4
400	399.8	14.0	460	459.7	16.1	520	519.7	18.1	580	579.6	20.2	640	639.6	22.3	700	699.6	24.4
401	400.8	14.0	461	460.7	16.1	521	520.7	18.2	581	580.6	20.3	641	640.6	22.4	701	700.6	24.5
402	401.8	14.0	462	461.7	16.1	522	521.7	18.2	582	581.6	20.3	642	641.6	22.4	702	701.6	24.5
403	402.8	14.1	463	462.7	16.2	523	522.7	18.3	583	582.6	20.3	643	642.6	22.4	703	702.6	24.5
404	403.8	14.1	464	463.7	16.2	524	523.7	18.3	584	583.6	20.4	644	643.6	22.5	704	703.6	24.6
405	404.8	14.1	465	464.7	16.2	525	524.7	18.3	585	584.6	20.4	645	644.6	22.5	705	704.6	24.6
406	405.8	14.2	466	465.7	16.3	526	525.7	18.4	586	585.6	20.5	646	645.6	22.5	706	705.6	24.6
407	406.8	14.2	467	466.7	16.3	527	526.7	18.4	587	586.6	20.5	647	646.6	22.6	707	706.6	24.7
408	407.8	14.2	468	467.7	16.3	528	527.7	18.4	588	587.6	20.5	648	647.6	22.6	708	707.6	24.7
409	408.8	14.3	469	468.7	16.4	529	528.7	18.5	589	588.6	20.6	649	648.6	22.6	709	708.6	24.7
410	409.8	14.3	470	469.7	16.4	530	529.7	18.5	590	589.6	20.6	650	649.6	22.7	710	709.6	24.8
411	410.7	14.3	471	470.7	16.4	531	530.7	18.5	591	590.6	20.6	651	650.6	22.7	711	710.6	24.8
412	411.7	14.4	472	471.7	16.5	532	531.7	18.6	592	591.6	20.7	652	651.6	22.8	712	711.6	24.8
413	412.7	14.4	473	472.7	16.5	533	532.7	18.6	593	592.6	20.7	653	652.6	22.8	713	712.6	24.9
414	413.7	14.4	474	473.7	16.5	534	533.7	18.6	594	593.6	20.7	654	653.6	22.8	714	713.6	24.9
415	414.7	14.5	475	474.7	16.6	535	534.7	18.7	595	594.6	20.8	655	654.6	22.9	715	714.6	25.0
416	415.7	14.5	476	475.7	16.6	536	535.7	18.7	596	595.6	20.8	656	655.6	22.9	716	715.6	25.0
417	416.7	14.6	477	476.7	16.6	537	536.7	18.7	597	596.6	20.8	657	656.6	22.9	717	716.6	25.0
418	417.7	14.6	478	477.7	16.7	538	537.7	18.8	598	597.6	20.9	658	657.6	23.0	718	717.6	25.1
419	418.7	14.6	479	478.7	16.7	539	538.7	18.8	599	598.6	20.9	659	658.6	23.0	719	718.6	25.1
420	419.7	14.7	480	479.7	16.8	540	539.7	18.8	600	599.6	20.9	660	659.6	23.0	720	719.6	25.1

D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI
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D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	1.0	0.1	61	60.9	3.2	121	120.8	6.3	181	180.8	9.5	241	240.7	12.6	301	300.6	15.8
2	2.0	0.1	62	61.9	3.2	122	121.8	6.4	182	181.8	9.5	242	241.7	12.7	302	301.6	15.8
3	3.0	0.2	63	62.9	3.3	123	122.8	6.4	183	182.7	9.6	243	242.7	12.7	303	302.6	15.9
4	4.0	0.2	64	63.9	3.3	124	123.8	6.5	184	183.7	9.6	244	243.7	12.8	304	303.6	15.9
5	5.0	0.3	65	64.9	3.4	125	124.8	6.5	185	184.7	9.7	245	244.7	12.8	305	304.6	16.0
6	6.0	0.3	66	65.9	3.5	126	125.8	6.6	186	185.7	9.7	246	245.7	12.9	306	305.6	16.0
7	7.0	0.4	67	66.9	3.5	127	126.8	6.6	187	186.7	9.8	247	246.7	12.9	307	306.6	16.1
8	8.0	0.4	68	67.9	3.6	128	127.8	6.7	188	187.7	9.8	248	247.7	13.0	308	307.6	16.1
9	9.0	0.5	69	68.9	3.6	129	128.8	6.8	189	188.7	9.9	249	248.7	13.0	309	308.6	16.2
10	10.0	0.5	70	69.9	3.7	130	129.8	6.8	190	189.7	9.9	250	249.7	13.1	310	309.6	16.2
11	11.0	0.6	71	70.9	3.7	131	130.8	6.9	191	190.7	10.0	251	250.7	13.1	311	310.6	16.3
12	12.0	0.6	72	71.9	3.8	132	131.8	6.9	192	191.7	10.0	252	251.7	13.2	312	311.6	16.3
13	13.0	0.7	73	72.9	3.8	133	132.8	7.0	193	192.7	10.1	253	252.7	13.2	313	312.6	16.4
14	14.0	0.7	74	73.9	3.9	134	133.8	7.0	194	193.7	10.2	254	253.7	13.3	314	313.6	16.4
15	15.0	0.8	75	74.9	3.9	135	134.8	7.1	195	194.7	10.2	255	254.7	13.3	315	314.6	16.5
16	16.0	0.8	76	75.9	4.0	136	135.8	7.1	196	195.7	10.3	256	255.6	13.4	316	315.6	16.5
17	17.0	0.9	77	76.9	4.0	137	136.8	7.2	197	196.7	10.3	257	256.6	13.5	317	316.6	16.6
18	18.0	0.9	78	77.9	4.1	138	137.8	7.2	198	197.7	10.4	258	257.6	13.5	318	317.6	16.6
19	19.0	1.0	79	78.9	4.1	139	138.8	7.3	199	198.7	10.4	259	258.6	13.6	319	318.6	16.7
20	20.0	1.0	80	79.9	4.2	140	139.8	7.3	200	199.7	10.5	260	259.6	13.6	320	319.6	16.7
21	21.0	1.1	81	80.9	4.2	141	140.8	7.4	201	200.7	10.5	261	260.6	13.7	321	320.6	16.8
22	22.0	1.2	82	81.9	4.3	142	141.8	7.4	202	201.7	10.6	262	261.6	13.7	322	321.6	16.9
23	23.0	1.2	83	82.9	4.3	143	142.8	7.5	203	202.7	10.6	263	262.6	13.8	323	322.6	16.9
24	24.0	1.3	84	83.9	4.4	144	143.8	7.5	204	203.7	10.7	264	263.6	13.8	324	323.6	17.0
25	25.0	1.3	85	84.9	4.4	145	144.8	7.6	205	204.7	10.7	265	264.6	13.9	325	324.6	17.0
26	26.0	1.4	86	85.9	4.5	146	145.8	7.6	206	205.7	10.8	266	265.6	13.9	326	325.6	17.1
27	27.0	1.4	87	86.9	4.6	147	146.8	7.7	207	206.7	10.8	267	266.6	14.0	327	326.6	17.1
28	28.0	1.5	88	87.9	4.6	148	147.8	7.7	208	207.7	10.9	268	267.6	14.0	328	327.6	17.2
29	29.0	1.5	89	88.9	4.7	149	148.8	7.8	209	208.7	10.9	269	268.6	14.1	329	328.6	17.2
30	30.0	1.6	90	89.9	4.7	150	149.8	7.9	210	209.7	11.0	270	269.6	14.1	330	329.6	17.3
31	31.0	1.6	91	90.9	4.8	151	150.8	7.9	211	210.7	11.0	271	270.6	14.2	331	330.6	17.3
32	32.0	1.7	92	91.9	4.8	152	151.8	8.0	212	211.7	11.1	272	271.6	14.2	332	331.6	17.4
33	33.0	1.7	93	92.9	4.9	153	152.8	8.0	213	212.7	11.1	273	272.6	14.3	333	332.6	17.4
34	34.0	1.8	94	93.9	4.9	154	153.8	8.1	214	213.7	11.2	274	273.6	14.3	334	333.6	17.5
35	35.0	1.8	95	94.9	5.0	155	154.8	8.1	215	214.7	11.3	275	274.6	14.4	335	334.6	17.5
36	36.0	1.9	96	95.9	5.0	156	155.8	8.2	216	215.7	11.3	276	275.6	14.4	336	335.6	17.6
37	36.9	1.9	97	96.9	5.1	157	156.8	8.2	217	216.7	11.4	277	276.6	14.5	337	336.6	17.6
38	37.9	2.0	98	97.9	5.1	158	157.8	8.3	218	217.7	11.4	278	277.6	14.5	338	337.6	17.7
39	38.9	2.0	99	98.9	5.2	159	158.8	8.3	219	218.7	11.5	279	278.6	14.6	339	338.6	17.7
40	39.9	2.1	100	99.9	5.2	160	159.8	8.4	220	219.7	11.5	280	279.6	14.7	340	339.6	17.8
41	40.9	2.1	101	100.9	5.3	161	160.8	8.4	221	220.7	11.6	281	280.6	14.7	341	340.6	17.8
42	41.9	2.2	102	101.9	5.3	162	161.8	8.5	222	221.7	11.6	282	281.6	14.8	342	341.6	17.9
43	42.9	2.3	103	102.9	5.4	163	162.8	8.5	223	222.7	11.7	283	282.6	14.8	343	342.6	18.0
44	43.9	2.3	104	103.9	5.4	164	163.8	8.6	224	223.7	11.7	284	283.6	14.9	344	343.6	18.0
45	44.9	2.4	105	104.9	5.5	165	164.8	8.6	225	224.7	11.8	285	284.6	14.9	345	344.6	18.1
46	45.9	2.4	106	105.9	5.5	166	165.8	8.7	226	225.7	11.8	286	285.6	15.0	346	345.6	18.1
47	46.9	2.5	107	106.9	5.6	167	166.8	8.7	227	226.7	11.9	287	286.6	15.0	347	346.6	18.2
48	47.9	2.5	108	107.9	5.7	168	167.8	8.8	228	227.7	11.9	288	287.6	15.1	348	347.6	18.2
49	48.9	2.6	109	108.9	5.7	169	168.8	8.8	229	228.7	12.0	289	288.6	15.1	349	348.6	18.3
50	49.9	2.6	110	109.8	5.8	170	169.8	8.9	230	229.7	12.0	290	289.6	15.2	350	349.6	18.3
51	50.9	2.7	111	110.8	5.8	171	170.8	8.9	231	230.7	12.1	291	290.6	15.2	351	350.6	18.4
52	51.9	2.7	112	111.8	5.9	172	171.8	9.0	232	231.7	12.1	292	291.6	15.3	352	351.6	18.4
53	52.9	2.8	113	112.8	5.9	173	172.8	9.1	233	232.7	12.2	293	292.6	15.3	353	352.6	18.5
54	53.9	2.8	114	113.8	6.0	174	173.8	9.1	234	233.7	12.2	294	293.6	15.4	354	353.6	18.5
55	54.9	2.9	115	114.8	6.0	175	174.8	9.2	235	234.7	12.3	295	294.6	15.4	355	354.6	18.6
56	55.9	2.9	116	115.8	6.1	176	175.8	9.2	236	235.7	12.4	296	295.6	15.5	356	355.6	18.6
57	56.9	3.0	117	116.8	6.1	177	176.8	9.3	237	236.7	12.4	297	296.6	15.5	357	356.6	18.7
58	57.9	3.0	118	117.8	6.2	178	177.8	9.3	238	237.7	12.5	298	297.6	15.6	358	357.6	18.7
59	58.9	3.1	119	118.8	6.2	179	178.8	9.4	239	238.7	12.5	299	298.6	15.6	359	358.6	18.8
60	59.9	3.1	120	119.8	6.3	180	179.8	9.4	240	239.7	12.6	300	299.6	15.7	360	359.6	18.8

D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep
361	360.5	18.9	421	420.4	22.0	481	480.3	25.2	541	540.3	28.3	601	600.2	31.5	661	660.1	34.6
362	361.5	18.9	422	421.4	22.1	482	481.3	25.2	542	541.3	28.4	602	601.2	31.5	662	661.1	34.6
363	362.5	19.0	423	422.4	22.1	483	482.3	25.3	543	542.3	28.4	603	602.2	31.6	663	662.1	34.7
364	363.5	19.1	424	423.4	22.2	484	483.3	25.3	544	543.3	28.5	604	603.2	31.6	664	663.1	34.8
365	364.5	19.1	425	424.4	22.2	485	484.3	25.4	545	544.3	28.5	605	604.2	31.7	665	664.1	34.8
366	365.5	19.2	426	425.4	22.3	486	485.3	25.4	546	545.3	28.6	606	605.2	31.7	666	665.1	34.9
367	366.5	19.2	427	426.4	22.3	487	486.3	25.5	547	546.3	28.6	607	606.2	31.8	667	666.1	34.9
368	367.5	19.3	428	427.4	22.4	488	487.3	25.5	548	547.2	28.7	608	607.2	31.8	668	667.1	35.0
369	368.5	19.3	429	428.4	22.5	489	488.3	25.6	549	548.2	28.7	609	608.2	31.9	669	668.1	35.0
370	369.5	19.4	430	429.4	22.5	490	489.3	25.6	550	549.2	28.8	610	609.2	31.9	670	669.1	35.1
371	370.5	19.4	431	430.4	22.6	491	490.3	25.7	551	550.2	28.8	611	610.2	32.0	671	670.1	35.1
372	371.5	19.5	432	431.4	22.6	492	491.3	25.7	552	551.2	28.9	612	611.2	32.0	672	671.1	35.2
373	372.5	19.5	433	432.4	22.7	493	492.3	25.8	553	552.2	28.9	613	612.2	32.1	673	672.1	35.2
374	373.5	19.6	434	433.4	22.7	494	493.3	25.9	554	553.2	29.0	614	613.2	32.1	674	673.1	35.3
375	374.5	19.6	435	434.4	22.8	495	494.3	25.9	555	554.2	29.0	615	614.2	32.2	675	674.1	35.3
376	375.5	19.7	436	435.4	22.8	496	495.3	26.0	556	555.2	29.1	616	615.2	32.2	676	675.1	35.4
377	376.5	19.7	437	436.4	22.9	497	496.3	26.0	557	556.2	29.2	617	616.2	32.3	677	676.1	35.4
378	377.5	19.8	438	437.4	22.9	498	497.3	26.1	558	557.2	29.2	618	617.2	32.3	678	677.1	35.5
379	378.5	19.8	439	438.4	23.0	499	498.3	26.1	559	558.2	29.3	619	618.2	32.4	679	678.1	35.5
380	379.5	19.9	440	439.4	23.0	500	499.3	26.2	560	559.2	29.3	620	619.2	32.4	680	679.1	35.6
381	380.5	19.9	441	440.4	23.1	501	500.3	26.2	561	560.2	29.4	621	620.1	32.5	681	680.1	35.6
382	381.5	20.0	442	441.4	23.1	502	501.3	26.3	562	561.2	29.4	622	621.1	32.6	682	681.1	35.7
383	382.5	20.0	443	442.4	23.2	503	502.3	26.3	563	562.2	29.5	623	622.1	32.6	683	682.1	35.7
384	383.5	20.1	444	443.4	23.2	504	503.3	26.4	564	563.2	29.5	624	623.1	32.7	684	683.1	35.8
385	384.5	20.1	445	444.4	23.3	505	504.3	26.4	565	564.2	29.6	625	624.1	32.7	685	684.1	35.9
386	385.5	20.2	446	445.4	23.3	506	505.3	26.5	566	565.2	29.6	626	625.1	32.8	686	685.1	35.9
387	386.5	20.3	447	446.4	23.4	507	506.3	26.5	567	566.2	29.7	627	626.1	32.8	687	686.1	36.0
388	387.5	20.3	448	447.4	23.4	508	507.3	26.6	568	567.2	29.7	628	627.1	32.9	688	687.1	36.0
389	388.5	20.4	449	448.4	23.5	509	508.3	26.6	569	568.2	29.8	629	628.1	32.9	689	688.1	36.1
390	389.5	20.4	450	449.4	23.6	510	509.3	26.7	570	569.2	29.8	630	629.1	33.0	690	689.1	36.1
391	390.5	20.5	451	450.4	23.6	511	510.3	26.7	571	570.2	29.9	631	630.1	33.0	691	690.1	36.2
392	391.5	20.5	452	451.4	23.7	512	511.3	26.8	572	571.2	29.9	632	631.1	33.1	692	691.1	36.2
393	392.5	20.6	453	452.4	23.7	513	512.3	26.8	573	572.2	30.0	633	632.1	33.1	693	692.1	36.3
394	393.5	20.6	454	453.4	23.8	514	513.3	26.9	574	573.2	30.0	634	633.1	33.2	694	693.0	36.3
395	394.5	20.7	455	454.4	23.8	515	514.3	27.0	575	574.2	30.1	635	634.1	33.2	695	694.0	36.4
396	395.5	20.7	456	455.4	23.9	516	515.3	27.0	576	575.2	30.1	636	635.1	33.3	696	695.0	36.4
397	396.5	20.8	457	456.4	23.9	517	516.3	27.1	577	576.2	30.2	637	636.1	33.3	697	696.0	36.5
398	397.5	20.8	458	457.4	24.0	518	517.3	27.1	578	577.2	30.3	638	637.1	33.4	698	697.0	36.5
399	398.5	20.9	459	458.4	24.0	519	518.3	27.2	579	578.2	30.3	639	638.1	33.4	699	698.0	36.6
400	399.5	20.9	460	459.4	24.1	520	519.3	27.2	580	579.2	30.4	640	639.1	33.5	700	699.0	36.6
401	400.5	21.0	461	460.4	24.1	521	520.3	27.3	581	580.2	30.4	641	640.1	33.5	701	700.0	36.7
402	401.4	21.0	462	461.4	24.2	522	521.3	27.3	582	581.2	30.5	642	641.1	33.6	702	701.0	36.7
403	402.4	21.1	463	462.4	24.2	523	522.3	27.4	583	582.2	30.5	643	642.1	33.7	703	702.0	36.8
404	403.4	21.1	464	463.4	24.3	524	523.3	27.4	584	583.2	30.6	644	643.1	33.7	704	703.0	36.8
405	404.4	21.2	465	464.4	24.3	525	524.3	27.5	585	584.2	30.6	645	644.1	33.8	705	704.0	36.9
406	405.4	21.2	466	465.4	24.4	526	525.3	27.5	586	585.2	30.7	646	645.1	33.8	706	705.0	36.9
407	406.4	21.3	467	466.4	24.4	527	526.3	27.6	587	586.2	30.7	647	646.1	33.9	707	706.0	37.0
408	407.4	21.4	468	467.4	24.5	528	527.3	27.6	588	587.2	30.8	648	647.1	33.9	708	707.0	37.1
409	408.4	21.4	469	468.4	24.5	529	528.3	27.7	589	588.2	30.8	649	648.1	34.0	709	708.0	37.1
410	409.4	21.5	470	469.4	24.6	530	529.3	27.7	590	589.2	30.9	650	649.1	34.0	710	709.0	37.2
411	410.4	21.5	471	470.4	24.7	531	530.3	27.8	591	590.2	30.9	651	650.1	34.1	711	710.0	37.2
412	411.4	21.6	472	471.4	24.7	532	531.3	27.8	592	591.2	31.0	652	651.1	34.1	712	711.0	37.3
413	412.4	21.6	473	472.4	24.8	533	532.3	27.9	593	592.2	31.0	653	652.1	34.2	713	712.0	37.3
414	413.4	21.7	474	473.4	24.8	534	533.3	27.9	594	593.2	31.1	654	653.1	34.2	714	713.0	37.4
415	414.4	21.7	475	474.3	24.9	535	534.3	28.0	595	594.2	31.1	655	654.1	34.3	715	714.0	37.4
416	415.4	21.8	476	475.3	24.9	536	535.3	28.1	596	595.2	31.2	656	655.1	34.3	716	715.0	37.5
417	416.4	21.8	477	476.3	25.0	537	536.3	28.1	597	596.2	31.2	657	656.1	34.4	717	716.0	37.5
418	417.4	21.9	478	477.3	25.0	538	537.3	28.2	598	597.2	31.3	658	657.1	34.4	718	717.0	37.6
419	418.4	21.9	479	478.3	25.1	539	538.3	28.2	599	598.2	31.3	659	658.1	34.5	719	718.0	37.6
420	419.4	22.0	480	479.3	25.1	540	539.3	28.3	600	599.2	31.4	660	659.1	34.5	720	719.0	37.7

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	1.0	0.1	61	60.9	4.3	121	120.7	8.4	181	180.6	12.6	241	240.4	16.8	301	300.3	21.0
2	2.0	0.1	62	61.8	4.3	122	121.7	8.5	182	181.6	12.7	242	241.4	16.9	302	301.3	21.1
3	3.0	0.2	63	62.8	4.4	123	122.7	8.6	183	182.6	12.8	243	242.4	17.0	303	302.3	21.1
4	4.0	0.3	64	63.8	4.5	124	123.7	8.6	184	183.6	12.8	244	243.4	17.0	304	303.3	21.2
5	5.0	0.3	65	64.8	4.5	125	124.7	8.7	185	184.5	12.9	245	244.4	17.1	305	304.3	21.3
6	6.0	0.4	66	65.8	4.6	126	125.7	8.8	186	185.5	13.0	246	245.4	17.2	306	305.3	21.3
7	7.0	0.5	67	66.8	4.7	127	126.7	8.9	187	186.5	13.0	247	246.4	17.2	307	306.3	21.4
8	8.0	0.6	68	67.8	4.7	128	127.7	8.9	188	187.5	13.1	248	247.4	17.3	308	307.2	21.5
9	9.0	0.6	69	68.8	4.8	129	128.7	9.0	189	188.5	13.2	249	248.4	17.4	309	308.2	21.6
10	10.0	0.7	70	69.8	4.9	130	129.7	9.1	190	189.5	13.3	250	249.4	17.4	310	309.2	21.6
11	11.0	0.8	71	70.8	5.0	131	130.7	9.1	191	190.5	13.3	251	250.4	17.5	311	310.2	21.7
12	12.0	0.8	72	71.8	5.0	132	131.7	9.2	192	191.5	13.4	252	251.4	17.6	312	311.2	21.8
13	13.0	0.9	73	72.8	5.1	133	132.7	9.3	193	192.5	13.5	253	252.4	17.6	313	312.2	21.8
14	14.0	1.0	74	73.8	5.2	134	133.7	9.3	194	193.5	13.5	254	253.4	17.7	314	313.2	21.9
15	15.0	1.0	75	74.8	5.2	135	134.7	9.4	195	194.5	13.6	255	254.4	17.8	315	314.2	22.0
16	16.0	1.1	76	75.8	5.3	136	135.7	9.5	196	195.5	13.7	256	255.4	17.9	316	315.2	22.0
17	17.0	1.2	77	76.8	5.4	137	136.7	9.6	197	196.5	13.7	257	256.4	17.9	317	316.2	22.1
18	18.0	1.3	78	77.8	5.4	138	137.7	9.6	198	197.5	13.8	258	257.4	18.0	318	317.2	22.2
19	19.0	1.3	79	78.8	5.5	139	138.7	9.7	199	198.5	13.9	259	258.4	18.1	319	318.2	22.3
20	20.0	1.4	80	79.8	5.6	140	139.7	9.8	200	199.5	14.0	260	259.4	18.1	320	319.2	22.3
21	20.9	1.5	81	80.8	5.7	141	140.7	9.8	201	200.5	14.0	261	260.4	18.2	321	320.2	22.4
22	21.9	1.5	82	81.8	5.7	142	141.7	9.9	202	201.5	14.1	262	261.4	18.3	322	321.2	22.5
23	22.9	1.6	83	82.8	5.8	143	142.7	10.0	203	202.5	14.2	263	262.4	18.3	323	322.2	22.5
24	23.9	1.7	84	83.8	5.9	144	143.6	10.0	204	203.5	14.2	264	263.4	18.4	324	323.2	22.6
25	24.9	1.7	85	84.8	5.9	145	144.6	10.1	205	204.5	14.3	265	264.4	18.5	325	324.2	22.7
26	25.9	1.8	86	85.8	6.0	146	145.6	10.2	206	205.5	14.4	266	265.4	18.6	326	325.2	22.7
27	26.9	1.9	87	86.8	6.1	147	146.6	10.3	207	206.5	14.4	267	266.3	18.6	327	326.2	22.8
28	27.9	2.0	88	87.8	6.1	148	147.6	10.3	208	207.5	14.5	268	267.3	18.7	328	327.2	22.9
29	28.9	2.0	89	88.8	6.2	149	148.6	10.4	209	208.5	14.6	269	268.3	18.8	329	328.2	22.9
30	29.9	2.1	90	89.8	6.3	150	149.6	10.5	210	209.5	14.6	270	269.3	18.8	330	329.2	23.0
31	30.9	2.2	91	90.8	6.3	151	150.6	10.5	211	210.5	14.7	271	270.3	18.9	331	330.2	23.1
32	31.9	2.2	92	91.8	6.4	152	151.6	10.6	212	211.5	14.8	272	271.3	19.0	332	331.2	23.2
33	32.9	2.3	93	92.8	6.5	153	152.6	10.7	213	212.5	14.9	273	272.3	19.0	333	332.2	23.2
34	33.9	2.4	94	93.8	6.6	154	153.6	10.7	214	213.5	14.9	274	273.3	19.1	334	333.2	23.3
35	34.9	2.4	95	94.8	6.6	155	154.6	10.8	215	214.5	15.0	275	274.3	19.2	335	334.2	23.4
36	35.9	2.5	96	95.8	6.7	156	155.6	10.9	216	215.5	15.1	276	275.3	19.3	336	335.2	23.4
37	36.9	2.6	97	96.8	6.8	157	156.6	11.0	217	216.5	15.1	277	276.3	19.3	337	336.2	23.5
38	37.9	2.7	98	97.8	6.8	158	157.6	11.0	218	217.5	15.2	278	277.3	19.4	338	337.2	23.6
39	38.9	2.7	99	98.8	6.9	159	158.6	11.1	219	218.5	15.3	279	278.3	19.5	339	338.2	23.6
40	39.9	2.8	100	99.8	7.0	160	159.6	11.2	220	219.5	15.3	280	279.3	19.5	340	339.2	23.7
41	40.9	2.9	101	100.8	7.0	161	160.6	11.2	221	220.5	15.4	281	280.3	19.6	341	340.2	23.8
42	41.9	2.9	102	101.7	7.1	162	161.6	11.3	222	221.5	15.5	282	281.3	19.7	342	341.2	23.9
43	42.9	3.0	103	102.7	7.2	163	162.6	11.4	223	222.5	15.6	283	282.3	19.7	343	342.2	23.9
44	43.9	3.1	104	103.7	7.3	164	163.6	11.4	224	223.5	15.6	284	283.3	19.8	344	343.2	24.0
45	44.9	3.1	105	104.7	7.3	165	164.6	11.5	225	224.5	15.7	285	284.3	19.9	345	344.2	24.1
46	45.9	3.2	106	105.7	7.4	166	165.6	11.6	226	225.4	15.8	286	285.3	20.0	346	345.2	24.1
47	46.9	3.3	107	106.7	7.5	167	166.6	11.6	227	226.4	15.8	287	286.3	20.0	347	346.2	24.2
48	47.9	3.3	108	107.7	7.5	168	167.6	11.7	228	227.4	15.9	288	287.3	20.1	348	347.2	24.3
49	48.9	3.4	109	108.7	7.6	169	168.6	11.8	229	228.4	16.0	289	288.3	20.2	349	348.1	24.3
50	49.9	3.5	110	109.7	7.7	170	169.6	11.9	230	229.4	16.0	290	289.3	20.2	350	349.1	24.4
51	50.9	3.6	111	110.7	7.7	171	170.6	11.9	231	230.4	16.1	291	290.3	20.3	351	350.1	24.5
52	51.9	3.6	112	111.7	7.8	172	171.6	12.0	232	231.4	16.2	292	291.3	20.4	352	351.1	24.6
53	52.9	3.7	113	112.7	7.9	173	172.6	12.1	233	232.4	16.3	293	292.3	20.4	353	352.1	24.6
54	53.9	3.8	114	113.7	8.0	174	173.6	12.1	234	233.4	16.3	294	293.3	20.5	354	353.1	24.7
55	54.9	3.8	115	114.7	8.0	175	174.6	12.2	235	234.4	16.4	295	294.3	20.6	355	354.1	24.8
56	55.9	3.9	116	115.7	8.1	176	175.6	12.3	236	235.4	16.5	296	295.3	20.6	356	355.1	24.8
57	56.9	4.0	117	116.7	8.2	177	176.6	12.3	237	236.4	16.5	297	296.3	20.7	357	356.1	24.9
58	57.9	4.0	118	117.7	8.2	178	177.6	12.4	238	237.4	16.6	298	297.3	20.8	358	357.1	25.0
59	58.9	4.1	119	118.7	8.3	179	178.6	12.5	239	238.4	16.7	299	298.3	20.9	359	358.1	25.0
60	59.9	4.2	120	119.7	8.4	180	179.6	12.6	240	239.4	16.7	300	299.3	20.9	360	359.1	25.1

D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI
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D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	360.1	25.2	421	420.0	29.4	481	479.8	33.6	541	539.7	37.7	601	599.5	41.9	661	659.4	46.1
362	361.1	25.3	422	421.0	29.4	482	480.8	33.6	542	540.7	37.8	602	600.5	42.0	662	660.4	46.2
363	362.1	25.3	423	422.0	29.5	483	481.8	33.7	543	541.7	37.9	603	601.5	42.1	663	661.4	46.3
364	363.1	25.4	424	423.0	29.6	484	482.8	33.8	544	542.7	37.9	604	602.5	42.1	664	662.4	46.3
365	364.1	25.5	425	424.0	29.6	485	483.8	33.8	545	543.7	38.0	605	603.5	42.2	665	663.4	46.4
366	365.1	25.5	426	425.0	29.7	486	484.8	33.9	546	544.7	38.1	606	604.5	42.3	666	664.4	46.5
367	366.1	25.6	427	426.0	29.8	487	485.8	34.0	547	545.7	38.2	607	605.5	42.3	667	665.4	46.5
368	367.1	25.7	428	427.0	29.9	488	486.8	34.0	548	546.7	38.2	608	606.5	42.4	668	666.4	46.6
369	368.1	25.7	429	428.0	29.9	489	487.8	34.1	549	547.7	38.3	609	607.5	42.5	669	667.4	46.7
370	369.1	25.8	430	429.0	30.0	490	488.8	34.2	550	548.7	38.4	610	608.5	42.6	670	668.4	46.7
371	370.1	25.9	431	430.0	30.1	491	489.8	34.3	551	549.7	38.4	611	609.5	42.6	671	669.4	46.8
372	371.1	25.9	432	430.9	30.1	492	490.8	34.3	552	550.7	38.5	612	610.5	42.7	672	670.4	46.9
373	372.1	26.0	433	431.9	30.2	493	491.8	34.4	553	551.7	38.6	613	611.5	42.8	673	671.4	46.9
374	373.1	26.1	434	432.9	30.3	494	492.8	34.5	554	552.7	38.6	614	612.5	42.8	674	672.4	47.0
375	374.1	26.2	435	433.9	30.3	495	493.8	34.5	555	553.6	38.7	615	613.5	42.9	675	673.4	47.1
376	375.1	26.2	436	434.9	30.4	496	494.8	34.6	556	554.6	38.8	616	614.5	43.0	676	674.4	47.2
377	376.1	26.3	437	435.9	30.5	497	495.8	34.7	557	555.6	38.9	617	615.5	43.0	677	675.4	47.2
378	377.1	26.4	438	436.9	30.6	498	496.8	34.7	558	556.6	38.9	618	616.5	43.1	678	676.3	47.3
379	378.1	26.4	439	437.9	30.6	499	497.8	34.8	559	557.6	39.0	619	617.5	43.2	679	677.3	47.4
380	379.1	26.5	440	438.9	30.7	500	498.8	34.9	560	558.6	39.1	620	618.5	43.2	680	678.3	47.4
381	380.1	26.6	441	439.9	30.8	501	499.8	34.9	561	559.6	39.1	621	619.5	43.3	681	679.3	47.5
382	381.1	26.6	442	440.9	30.8	502	500.8	35.0	562	560.6	39.2	622	620.5	43.4	682	680.3	47.6
383	382.1	26.7	443	441.9	30.9	503	501.8	35.1	563	561.6	39.3	623	621.5	43.5	683	681.3	47.6
384	383.1	26.8	444	442.9	31.0	504	502.8	35.2	564	562.6	39.3	624	622.5	43.5	684	682.3	47.7
385	384.1	26.9	445	443.9	31.0	505	503.8	35.2	565	563.6	39.4	625	623.5	43.6	685	683.3	47.8
386	385.1	26.9	446	444.9	31.1	506	504.8	35.3	566	564.6	39.5	626	624.5	43.7	686	684.3	47.9
387	386.1	27.0	447	445.9	31.2	507	505.8	35.4	567	565.6	39.5	627	625.5	43.7	687	685.3	47.9
388	387.1	27.1	448	446.9	31.3	508	506.8	35.4	568	566.6	39.6	628	626.5	43.8	688	686.3	48.0
389	388.1	27.1	449	447.9	31.3	509	507.8	35.5	569	567.6	39.7	629	627.5	43.9	689	687.3	48.1
390	389.0	27.2	450	448.9	31.4	510	508.8	35.6	570	568.6	39.8	630	628.5	43.9	690	688.3	48.1
391	390.0	27.3	451	449.9	31.5	511	509.8	35.6	571	569.6	39.8	631	629.5	44.0	691	689.3	48.2
392	391.0	27.3	452	450.9	31.5	512	510.8	35.7	572	570.6	39.9	632	630.5	44.1	692	690.3	48.3
393	392.0	27.4	453	451.9	31.6	513	511.8	35.8	573	571.6	40.0	633	631.5	44.2	693	691.3	48.3
394	393.0	27.5	454	452.9	31.7	514	512.7	35.9	574	572.6	40.0	634	632.5	44.2	694	692.3	48.4
395	394.0	27.6	455	453.9	31.7	515	513.7	35.9	575	573.6	40.1	635	633.5	44.3	695	693.3	48.5
396	395.0	27.6	456	454.9	31.8	516	514.7	36.0	576	574.6	40.2	636	634.5	44.4	696	694.3	48.6
397	396.0	27.7	457	455.9	31.9	517	515.7	36.1	577	575.6	40.2	637	635.4	44.4	697	695.3	48.6
398	397.0	27.8	458	456.9	31.9	518	516.7	36.1	578	576.6	40.3	638	636.4	44.5	698	696.3	48.7
399	398.0	27.8	459	457.9	32.0	519	517.7	36.2	579	577.6	40.4	639	637.4	44.6	699	697.3	48.8
400	399.0	27.9	460	458.9	32.1	520	518.7	36.3	580	578.6	40.5	640	638.4	44.6	700	698.3	48.8
401	400.0	28.0	461	459.9	32.2	521	519.7	36.3	581	579.6	40.5	641	639.4	44.7	701	699.3	48.9
402	401.0	28.0	462	460.9	32.2	522	520.7	36.4	582	580.6	40.6	642	640.4	44.8	702	700.3	49.0
403	402.0	28.1	463	461.9	32.3	523	521.7	36.5	583	581.6	40.7	643	641.4	44.9	703	701.3	49.0
404	403.0	28.2	464	462.9	32.4	524	522.7	36.6	584	582.6	40.7	644	642.4	44.9	704	702.3	49.1
405	404.0	28.3	465	463.9	32.4	525	523.7	36.6	585	583.6	40.8	645	643.4	45.0	705	703.3	49.2
406	405.0	28.3	466	464.9	32.5	526	524.7	36.7	586	584.6	40.9	646	644.4	45.1	706	704.3	49.2
407	406.0	28.4	467	465.9	32.6	527	525.7	36.8	587	585.6	40.9	647	645.4	45.1	707	705.3	49.3
408	407.0	28.5	468	466.9	32.6	528	526.7	36.8	588	586.6	41.0	648	646.4	45.2	708	706.3	49.4
409	408.0	28.5	469	467.9	32.7	529	527.7	36.9	589	587.6	41.1	649	647.4	45.3	709	707.3	49.5
410	409.0	28.6	470	468.9	32.8	530	528.7	37.0	590	588.6	41.2	650	648.4	45.3	710	708.3	49.5
411	410.0	28.7	471	469.9	32.9	531	529.7	37.0	591	589.6	41.2	651	649.4	45.4	711	709.3	49.6
412	411.0	28.7	472	470.9	32.9	532	530.7	37.1	592	590.6	41.3	652	650.4	45.5	712	710.3	49.7
413	412.0	28.8	473	471.8	33.0	533	531.7	37.2	593	591.6	41.4	653	651.4	45.6	713	711.3	49.7
414	413.0	28.9	474	472.8	33.1	534	532.7	37.2	594	592.6	41.4	654	652.4	45.6	714	712.3	49.8
415	414.0	28.9	475	473.8	33.1	535	533.7	37.3	595	593.6	41.5	655	653.4	45.7	715	713.3	49.9
416	415.0	29.0	476	474.8	33.2	536	534.7	37.4	596	594.5	41.6	656	654.4	45.8	716	714.3	49.9
417	416.0	29.1	477	475.8	33.3	537	535.7	37.5	597	595.5	41.6	657	655.4	45.8	717	715.3	50.0
418	417.0	29.2	478	476.8	33.3	538	536.7	37.5	598	596.5	41.7	658	656.4	45.9	718	716.3	50.1
419	418.0	29.2	479	477.8	33.4	539	537.7	37.6	599	597.5	41.8	659	657.4	46.0	719	717.2	50.2
420	419.0	29.3	480	478.8	33.5	540	538.7	37.7	600	598.5	41.9	660	658.4	46.0	720	718.2	50.2

D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI
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D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	1.0	0.1	61	60.8	5.3	121	120.5	10.5	181	180.3	15.8	241	240.1	21.0	301	299.9	26.2
2	2.0	0.2	62	61.8	5.4	122	121.5	10.6	182	181.3	15.9	242	241.1	21.1	302	300.9	26.3
3	3.0	0.3	63	62.8	5.5	123	122.5	10.7	183	182.3	15.9	243	242.1	21.2	303	301.8	26.4
4	4.0	0.3	64	63.8	5.6	124	123.5	10.8	184	183.3	16.0	244	243.1	21.3	304	302.8	26.5
5	5.0	0.4	65	64.8	5.7	125	124.5	10.9	185	184.3	16.1	245	244.1	21.4	305	303.8	26.6
6	6.0	0.5	66	65.7	5.8	126	125.5	11.0	186	185.3	16.2	246	245.1	21.4	306	304.8	26.7
7	7.0	0.6	67	66.7	5.8	127	126.5	11.1	187	186.3	16.3	247	246.1	21.5	307	305.8	26.8
8	8.0	0.7	68	67.7	5.9	128	127.5	11.2	188	187.3	16.4	248	247.1	21.6	308	306.8	26.8
9	9.0	0.8	69	68.7	6.0	129	128.5	11.2	189	188.3	16.5	249	248.1	21.7	309	307.8	26.9
10	10.0	0.9	70	69.7	6.1	130	129.5	11.3	190	189.3	16.6	250	249.0	21.8	310	308.8	27.0
11	11.0	1.0	71	70.7	6.2	131	130.5	11.4	191	190.3	16.6	251	250.0	21.9	311	309.8	27.1
12	12.0	1.0	72	71.7	6.3	132	131.5	11.5	192	191.3	16.7	252	251.0	22.0	312	310.8	27.2
13	13.0	1.1	73	72.7	6.4	133	132.5	11.6	193	192.3	16.8	253	252.0	22.1	313	311.8	27.3
14	13.9	1.2	74	73.7	6.4	134	133.5	11.7	194	193.3	16.9	254	253.0	22.1	314	312.8	27.4
15	14.9	1.3	75	74.7	6.5	135	134.5	11.8	195	194.3	17.0	255	254.0	22.2	315	313.8	27.5
16	15.9	1.4	76	75.7	6.6	136	135.5	11.9	196	195.3	17.1	256	255.0	22.3	316	314.8	27.5
17	16.9	1.5	77	76.7	6.7	137	136.5	11.9	197	196.3	17.2	257	256.0	22.4	317	315.8	27.6
18	17.9	1.6	78	77.7	6.8	138	137.5	12.0	198	197.2	17.3	258	257.0	22.5	318	316.8	27.7
19	18.9	1.7	79	78.7	6.9	139	138.5	12.1	199	198.2	17.3	259	258.0	22.6	319	317.8	27.8
20	19.9	1.7	80	79.7	7.0	140	139.5	12.2	200	199.2	17.4	260	259.0	22.7	320	318.8	27.9
21	20.9	1.8	81	80.7	7.1	141	140.5	12.3	201	200.2	17.5	261	260.0	22.7	321	319.8	28.0
22	21.9	1.9	82	81.7	7.1	142	141.5	12.4	202	201.2	17.6	262	261.0	22.8	322	320.8	28.1
23	22.9	2.0	83	82.7	7.2	143	142.5	12.5	203	202.2	17.7	263	262.0	22.9	323	321.8	28.2
24	23.9	2.1	84	83.7	7.3	144	143.5	12.6	204	203.2	17.8	264	263.0	23.0	324	322.8	28.2
25	24.9	2.2	85	84.7	7.4	145	144.4	12.6	205	204.2	17.9	265	264.0	23.1	325	323.8	28.3
26	25.9	2.3	86	85.7	7.5	146	145.4	12.7	206	205.2	18.0	266	265.0	23.2	326	324.8	28.4
27	26.9	2.4	87	86.7	7.6	147	146.4	12.8	207	206.2	18.0	267	266.0	23.3	327	325.8	28.5
28	27.9	2.4	88	87.7	7.7	148	147.4	12.9	208	207.2	18.1	268	267.0	23.4	328	326.8	28.6
29	28.9	2.5	89	88.7	7.8	149	148.4	13.0	209	208.2	18.2	269	268.0	23.4	329	327.7	28.7
30	29.9	2.6	90	89.7	7.8	150	149.4	13.1	210	209.2	18.3	270	269.0	23.5	330	328.7	28.8
31	30.9	2.7	91	90.7	7.9	151	150.4	13.2	211	210.2	18.4	271	270.0	23.6	331	329.7	28.8
32	31.9	2.8	92	91.6	8.0	152	151.4	13.2	212	211.2	18.5	272	271.0	23.7	332	330.7	28.9
33	32.9	2.9	93	92.6	8.1	153	152.4	13.3	213	212.2	18.6	273	272.0	23.8	333	331.7	29.0
34	33.9	3.0	94	93.6	8.2	154	153.4	13.4	214	213.2	18.7	274	273.0	23.9	334	332.7	29.1
35	34.9	3.1	95	94.6	8.3	155	154.4	13.5	215	214.2	18.7	275	274.0	24.0	335	333.7	29.2
36	35.9	3.1	96	95.6	8.4	156	155.4	13.6	216	215.2	18.8	276	274.9	24.1	336	334.7	29.3
37	36.9	3.2	97	96.6	8.5	157	156.4	13.7	217	216.2	18.9	277	275.9	24.1	337	335.7	29.4
38	37.9	3.3	98	97.6	8.5	158	157.4	13.8	218	217.2	19.0	278	276.9	24.2	338	336.7	29.5
39	38.9	3.4	99	98.6	8.6	159	158.4	13.9	219	218.2	19.1	279	277.9	24.3	339	337.7	29.6
40	39.8	3.5	100	99.6	8.7	160	159.4	13.9	220	219.2	19.2	280	278.9	24.4	340	338.7	29.6
41	40.8	3.6	101	100.6	8.8	161	160.4	14.0	221	220.2	19.3	281	279.9	24.5	341	339.7	29.7
42	41.8	3.7	102	101.6	8.9	162	161.4	14.1	222	221.2	19.3	282	280.9	24.6	342	340.7	29.8
43	42.8	3.7	103	102.6	9.0	163	162.4	14.2	223	222.2	19.4	283	281.9	24.7	343	341.7	29.9
44	43.8	3.8	104	103.6	9.1	164	163.4	14.3	224	223.1	19.5	284	282.9	24.8	344	342.7	30.0
45	44.8	3.9	105	104.6	9.2	165	164.4	14.4	225	224.1	19.6	285	283.9	24.8	345	343.7	30.1
46	45.8	4.0	106	105.6	9.2	166	165.4	14.5	226	225.1	19.7	286	284.9	24.9	346	344.7	30.2
47	46.8	4.1	107	106.6	9.3	167	166.4	14.6	227	226.1	19.8	287	285.9	25.0	347	345.7	30.2
48	47.8	4.2	108	107.6	9.4	168	167.4	14.6	228	227.1	19.9	288	286.9	25.1	348	346.7	30.3
49	48.8	4.3	109	108.6	9.5	169	168.4	14.7	229	228.1	20.0	289	287.9	25.2	349	347.7	30.4
50	49.8	4.4	110	109.6	9.6	170	169.4	14.8	230	229.1	20.0	290	288.9	25.3	350	348.7	30.5
51	50.8	4.4	111	110.6	9.7	171	170.3	14.9	231	230.1	20.1	291	289.9	25.4	351	349.7	30.6
52	51.8	4.5	112	111.6	9.8	172	171.3	15.0	232	231.1	20.2	292	290.9	25.4	352	350.7	30.7
53	52.8	4.6	113	112.6	9.8	173	172.3	15.1	233	232.1	20.3	293	291.9	25.5	353	351.7	30.8
54	53.8	4.7	114	113.6	9.9	174	173.3	15.2	234	233.1	20.4	294	292.9	25.6	354	352.7	30.9
55	54.8	4.8	115	114.6	10.0	175	174.3	15.3	235	234.1	20.5	295	293.9	25.7	355	353.6	30.9
56	55.8	4.9	116	115.6	10.1	176	175.3	15.3	236	235.1	20.6	296	294.9	25.8	356	354.6	31.0
57	56.8	5.0	117	116.6	10.2	177	176.3	15.4	237	236.1	20.7	297	295.9	25.9	357	355.6	31.1
58	57.8	5.1	118	117.6	10.3	178	177.3	15.5	238	237.1	20.7	298	296.9	26.0	358	356.6	31.2
59	58.8	5.1	119	118.5	10.4	179	178.3	15.6	239	238.1	20.8	299	297.9	26.1	359	357.6	31.3
60	59.8	5.2	120	119.5	10.5	180	179.3	15.7	240	239.1	20.9	300	298.9	26.1	360	358.6	31.4

D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI
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D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	359.6	31.5	421	419.4	36.7	481	479.2	41.9	541	538.9	47.2	601	598.7	52.4	661	658.5	57.6
362	360.6	31.6	422	420.4	36.8	482	480.2	42.0	542	539.9	47.2	602	599.7	52.5	662	659.5	57.7
363	361.6	31.6	423	421.4	36.9	483	481.2	42.1	543	540.9	47.3	603	600.7	52.6	663	660.5	57.8
364	362.6	31.7	424	422.4	37.0	484	482.2	42.2	544	541.9	47.4	604	601.7	52.6	664	661.5	57.9
365	363.6	31.8	425	423.4	37.0	485	483.2	42.3	545	542.9	47.5	605	602.7	52.7	665	662.5	58.0
366	364.6	31.9	426	424.4	37.1	486	484.2	42.4	546	543.9	47.6	606	603.7	52.8	666	663.5	58.0
367	365.6	32.0	427	425.4	37.2	487	485.1	42.4	547	544.9	47.7	607	604.7	52.9	667	664.5	58.1
368	366.6	32.1	428	426.4	37.3	488	486.1	42.5	548	545.9	47.8	608	605.7	53.0	668	665.5	58.2
369	367.6	32.2	429	427.4	37.4	489	487.1	42.6	549	546.9	47.8	609	606.7	53.1	669	666.5	58.3
370	368.6	32.2	430	428.4	37.5	490	488.1	42.7	550	547.9	47.9	610	607.7	53.2	670	667.5	58.4
371	369.6	32.3	431	429.4	37.6	491	489.1	42.8	551	548.9	48.0	611	608.7	53.3	671	668.4	58.5
372	370.6	32.4	432	430.4	37.7	492	490.1	42.9	552	549.9	48.1	612	609.7	53.3	672	669.4	58.6
373	371.6	32.5	433	431.4	37.7	493	491.1	43.0	553	550.9	48.2	613	610.7	53.4	673	670.4	58.7
374	372.6	32.6	434	432.3	37.8	494	492.1	43.1	554	551.9	48.3	614	611.7	53.5	674	671.4	58.7
375	373.6	32.7	435	433.3	37.9	495	493.1	43.1	555	552.9	48.4	615	612.7	53.6	675	672.4	58.8
376	374.6	32.8	436	434.3	38.0	496	494.1	43.2	556	553.9	48.5	616	613.7	53.7	676	673.4	58.9
377	375.6	32.9	437	435.3	38.1	497	495.1	43.3	557	554.9	48.5	617	614.7	53.8	677	674.4	59.0
378	376.6	33.0	438	436.3	38.2	498	496.1	43.4	558	555.9	48.6	618	615.6	53.9	678	675.4	59.1
379	377.6	33.0	439	437.3	38.3	499	497.1	43.5	559	556.9	48.7	619	616.6	53.9	679	676.4	59.2
380	378.6	33.1	440	438.3	38.3	500	498.1	43.6	560	557.9	48.8	620	617.6	54.0	680	677.4	59.3
381	379.6	33.2	441	439.3	38.4	501	499.1	43.7	561	558.9	48.9	621	618.6	54.1	681	678.4	59.4
382	380.5	33.3	442	440.3	38.5	502	500.1	43.8	562	559.9	49.0	622	619.6	54.2	682	679.4	59.4
383	381.5	33.4	443	441.3	38.6	503	501.1	43.8	563	560.9	49.1	623	620.6	54.3	683	680.4	59.5
384	382.5	33.5	444	442.3	38.7	504	502.1	43.9	564	561.9	49.2	624	621.6	54.4	684	681.4	59.6
385	383.5	33.6	445	443.3	38.8	505	503.1	44.0	565	562.9	49.2	625	622.6	54.5	685	682.4	59.7
386	384.5	33.6	446	444.3	38.9	506	504.1	44.1	566	563.8	49.3	626	623.6	54.6	686	683.4	59.8
387	385.5	33.7	447	445.3	39.0	507	505.1	44.2	567	564.8	49.4	627	624.6	54.6	687	684.4	59.9
388	386.5	33.8	448	446.3	39.0	508	506.1	44.3	568	565.8	49.5	628	625.6	54.7	688	685.4	60.0
389	387.5	33.9	449	447.3	39.1	509	507.1	44.4	569	566.8	49.6	629	626.6	54.8	689	686.4	60.1
390	388.5	34.0	450	448.3	39.2	510	508.1	44.4	570	567.8	49.7	630	627.6	54.9	690	687.4	60.1
391	389.5	34.1	451	449.3	39.3	511	509.1	44.5	571	568.8	49.8	631	628.6	55.0	691	688.4	60.2
392	390.5	34.2	452	450.3	39.4	512	510.1	44.6	572	569.8	49.9	632	629.6	55.1	692	689.4	60.3
393	391.5	34.3	453	451.3	39.5	513	511.0	44.7	573	570.8	49.9	633	630.6	55.2	693	690.4	60.4
394	392.5	34.3	454	452.3	39.6	514	512.0	44.8	574	571.8	50.0	634	631.6	55.3	694	691.4	60.5
395	393.5	34.4	455	453.3	39.7	515	513.0	44.9	575	572.8	50.1	635	632.6	55.3	695	692.4	60.6
396	394.5	34.5	456	454.3	39.7	516	514.0	45.0	576	573.8	50.2	636	633.6	55.4	696	693.4	60.7
397	395.5	34.6	457	455.3	39.8	517	515.0	45.1	577	574.8	50.3	637	634.6	55.5	697	694.3	60.7
398	396.5	34.7	458	456.3	39.9	518	516.0	45.1	578	575.8	50.4	638	635.6	55.6	698	695.3	60.8
399	397.5	34.8	459	457.3	40.0	519	517.0	45.2	579	576.8	50.5	639	636.6	55.7	699	696.3	60.9
400	398.5	34.9	460	458.2	40.1	520	518.0	45.3	580	577.8	50.6	640	637.6	55.8	700	697.3	61.0
401	399.5	34.9	461	459.2	40.2	521	519.0	45.4	581	578.8	50.6	641	638.6	55.9	701	698.3	61.1
402	400.5	35.0	462	460.2	40.3	522	520.0	45.5	582	579.8	50.7	642	639.6	56.0	702	699.3	61.2
403	401.5	35.1	463	461.2	40.4	523	521.0	45.6	583	580.8	50.8	643	640.6	56.0	703	700.3	61.3
404	402.5	35.2	464	462.2	40.4	524	522.0	45.7	584	581.8	50.9	644	641.5	56.1	704	701.3	61.4
405	403.5	35.3	465	463.2	40.5	525	523.0	45.8	585	582.8	51.0	645	642.5	56.2	705	702.3	61.4
406	404.5	35.4	466	464.2	40.6	526	524.0	45.8	586	583.8	51.1	646	643.5	56.3	706	703.3	61.5
407	405.5	35.5	467	465.2	40.7	527	525.0	45.9	587	584.8	51.2	647	644.5	56.4	707	704.3	61.6
408	406.4	35.6	468	466.2	40.8	528	526.0	46.0	588	585.8	51.2	648	645.5	56.5	708	705.3	61.7
409	407.4	35.6	469	467.2	40.9	529	527.0	46.1	589	586.8	51.3	649	646.5	56.6	709	706.3	61.8
410	408.4	35.7	470	468.2	41.0	530	528.0	46.2	590	587.8	51.4	650	647.5	56.7	710	707.3	61.9
411	409.4	35.8	471	469.2	41.1	531	529.0	46.3	591	588.8	51.5	651	648.5	56.7	711	708.3	62.0
412	410.4	35.9	472	470.2	41.1	532	530.0	46.4	592	589.7	51.6	652	649.5	56.8	712	709.3	62.1
413	411.4	36.0	473	471.2	41.2	533	531.0	46.5	593	590.7	51.7	653	650.5	56.9	713	710.3	62.1
414	412.4	36.1	474	472.2	41.3	534	532.0	46.5	594	591.7	51.8	654	651.5	57.0	714	711.3	62.2
415	413.4	36.2	475	473.2	41.4	535	533.0	46.6	595	592.7	51.9	655	652.5	57.1	715	712.3	62.3
416	414.4	36.3	476	474.2	41.5	536	534.0	46.7	596	593.7	51.9	656	653.5	57.2	716	713.3	62.4
417	415.4	36.3	477	475.2	41.6	537	535.0	46.8	597	594.7	52.0	657	654.5	57.3	717	714.3	62.5
418	416.4	36.4	478	476.2	41.7	538	536.0	46.9	598	595.7	52.1	658	655.5	57.3	718	715.3	62.6
419	417.4	36.5	479	477.2	41.7	539	536.9	47.0	599	596.7	52.2	659	656.5	57.4	719	716.3	62.7
420	418.4	36.6	480	478.2	41.8	540	537.9	47.1	600	597.7	52.3	660	657.5	57.5	720	717.3	62.8

D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI
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D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	1.0	0.1	61	60.7	6.4	121	120.3	12.6	181	180.0	18.9	241	239.7	25.2	301	299.4	31.5
2	2.0	0.2	62	61.7	6.5	122	121.3	12.8	182	181.0	19.0	242	240.7	25.3	302	300.3	31.6
3	3.0	0.3	63	62.7	6.6	123	122.3	12.9	183	182.0	19.1	243	241.7	25.4	303	301.3	31.7
4	4.0	0.4	64	63.6	6.7	124	123.3	13.0	184	183.0	19.2	244	242.7	25.5	304	302.3	31.8
5	5.0	0.5	65	64.6	6.8	125	124.3	13.1	185	184.0	19.3	245	243.7	25.6	305	303.3	31.9
6	6.0	0.6	66	65.6	6.9	126	125.3	13.2	186	185.0	19.4	246	244.7	25.7	306	304.3	32.0
7	7.0	0.7	67	66.6	7.0	127	126.3	13.3	187	186.0	19.5	247	245.6	25.8	307	305.3	32.1
8	8.0	0.8	68	67.6	7.1	128	127.3	13.4	188	187.0	19.7	248	246.6	25.9	308	306.3	32.2
9	9.0	0.9	69	68.6	7.2	129	128.3	13.5	189	188.0	19.8	249	247.6	26.0	309	307.3	32.3
10	9.9	1.0	70	69.6	7.3	130	129.3	13.6	190	189.0	19.9	250	248.6	26.1	310	308.3	32.4
11	10.9	1.1	71	70.6	7.4	131	130.3	13.7	191	190.0	20.0	251	249.6	26.2	311	309.3	32.5
12	11.9	1.3	72	71.6	7.5	132	131.3	13.8	192	190.9	20.1	252	250.6	26.3	312	310.3	32.6
13	12.9	1.4	73	72.6	7.6	133	132.3	13.9	193	191.9	20.2	253	251.6	26.4	313	311.3	32.7
14	13.9	1.5	74	73.6	7.7	134	133.3	14.0	194	192.9	20.3	254	252.6	26.6	314	312.3	32.8
15	14.9	1.6	75	74.6	7.8	135	134.3	14.1	195	193.9	20.4	255	253.6	26.7	315	313.3	32.9
16	15.9	1.7	76	75.6	7.9	136	135.3	14.2	196	194.9	20.5	256	254.6	26.8	316	314.3	33.0
17	16.9	1.8	77	76.6	8.0	137	136.2	14.3	197	195.9	20.6	257	255.6	26.9	317	315.3	33.1
18	17.9	1.9	78	77.6	8.2	138	137.2	14.4	198	196.9	20.7	258	256.6	27.0	318	316.3	33.2
19	18.9	2.0	79	78.6	8.3	139	138.2	14.5	199	197.9	20.8	259	257.6	27.1	319	317.3	33.3
20	19.9	2.1	80	79.6	8.4	140	139.2	14.6	200	198.9	20.9	260	258.6	27.2	320	318.2	33.4
21	20.9	2.2	81	80.6	8.5	141	140.2	14.7	201	199.9	21.0	261	259.6	27.3	321	319.2	33.6
22	21.9	2.3	82	81.6	8.6	142	141.2	14.8	202	200.9	21.1	262	260.6	27.4	322	320.2	33.7
23	22.9	2.4	83	82.5	8.7	143	142.2	14.9	203	201.9	21.2	263	261.6	27.5	323	321.2	33.8
24	23.9	2.5	84	83.5	8.8	144	143.2	15.1	204	202.9	21.3	264	262.6	27.6	324	322.2	33.9
25	24.9	2.6	85	84.5	8.9	145	144.2	15.2	205	203.9	21.4	265	263.5	27.7	325	323.2	34.0
26	25.9	2.7	86	85.5	9.0	146	145.2	15.3	206	204.9	21.5	266	264.5	27.8	326	324.2	34.1
27	26.9	2.8	87	86.5	9.1	147	146.2	15.4	207	205.9	21.6	267	265.5	27.9	327	325.2	34.2
28	27.8	2.9	88	87.5	9.2	148	147.2	15.5	208	206.9	21.7	268	266.5	28.0	328	326.2	34.3
29	28.8	3.0	89	88.5	9.3	149	148.2	15.6	209	207.9	21.8	269	267.5	28.1	329	327.2	34.4
30	29.8	3.1	90	89.5	9.4	150	149.2	15.7	210	208.8	22.0	270	268.5	28.2	330	328.2	34.5
31	30.8	3.2	91	90.5	9.5	151	150.2	15.8	211	209.8	22.1	271	269.5	28.3	331	329.2	34.6
32	31.8	3.3	92	91.5	9.6	152	151.2	15.9	212	210.8	22.2	272	270.5	28.4	332	330.2	34.7
33	32.8	3.4	93	92.5	9.7	153	152.2	16.0	213	211.8	22.3	273	271.5	28.5	333	331.2	34.8
34	33.8	3.6	94	93.5	9.8	154	153.2	16.1	214	212.8	22.4	274	272.5	28.6	334	332.2	34.9
35	34.8	3.7	95	94.5	9.9	155	154.2	16.2	215	213.8	22.5	275	273.5	28.7	335	333.2	35.0
36	35.8	3.8	96	95.5	10.0	156	155.1	16.3	216	214.8	22.6	276	274.5	28.8	336	334.2	35.1
37	36.8	3.9	97	96.5	10.1	157	156.1	16.4	217	215.8	22.7	277	275.5	29.0	337	335.2	35.2
38	37.8	4.0	98	97.5	10.2	158	157.1	16.5	218	216.8	22.8	278	276.5	29.1	338	336.1	35.3
39	38.8	4.1	99	98.5	10.3	159	158.1	16.6	219	217.8	22.9	279	277.5	29.2	339	337.1	35.4
40	39.8	4.2	100	99.5	10.5	160	159.1	16.7	220	218.8	23.0	280	278.5	29.3	340	338.1	35.5
41	40.8	4.3	101	100.4	10.6	161	160.1	16.8	221	219.8	23.1	281	279.5	29.4	341	339.1	35.6
42	41.8	4.4	102	101.4	10.7	162	161.1	16.9	222	220.8	23.2	282	280.5	29.5	342	340.1	35.7
43	42.8	4.5	103	102.4	10.8	163	162.1	17.0	223	221.8	23.3	283	281.4	29.6	343	341.1	35.9
44	43.8	4.6	104	103.4	10.9	164	163.1	17.1	224	222.8	23.4	284	282.4	29.7	344	342.1	36.0
45	44.8	4.7	105	104.4	11.0	165	164.1	17.2	225	223.8	23.5	285	283.4	29.8	345	343.1	36.1
46	45.7	4.8	106	105.4	11.1	166	165.1	17.4	226	224.8	23.6	286	284.4	29.9	346	344.1	36.2
47	46.7	4.9	107	106.4	11.2	167	166.1	17.5	227	225.8	23.7	287	285.4	30.0	347	345.1	36.3
48	47.7	5.0	108	107.4	11.3	168	167.1	17.6	228	226.8	23.8	288	286.4	30.1	348	346.1	36.4
49	48.7	5.1	109	108.4	11.4	169	168.1	17.7	229	227.7	23.9	289	287.4	30.2	349	347.1	36.5
50	49.7	5.2	110	109.4	11.5	170	169.1	17.8	230	228.7	24.0	290	288.4	30.3	350	348.1	36.6
51	50.7	5.3	111	110.4	11.6	171	170.1	17.9	231	229.7	24.1	291	289.4	30.4	351	349.1	36.7
52	51.7	5.4	112	111.4	11.7	172	171.1	18.0	232	230.7	24.3	292	290.4	30.5	352	350.1	36.8
53	52.7	5.5	113	112.4	11.8	173	172.1	18.1	233	231.7	24.4	293	291.4	30.6	353	351.1	36.9
54	53.7	5.6	114	113.4	11.9	174	173.0	18.2	234	232.7	24.5	294	292.4	30.7	354	352.1	37.0
55	54.7	5.7	115	114.4	12.0	175	174.0	18.3	235	233.7	24.6	295	293.4	30.8	355	353.1	37.1
56	55.7	5.9	116	115.4	12.1	176	175.0	18.4	236	234.7	24.7	296	294.4	30.9	356	354.0	37.2
57	56.7	6.0	117	116.4	12.2	177	176.0	18.5	237	235.7	24.8	297	295.4	31.0	357	355.0	37.3
58	57.7	6.1	118	117.4	12.3	178	177.0	18.6	238	236.7	24.9	298	296.4	31.1	358	356.0	37.4
59	58.7	6.2	119	118.3	12.4	179	178.0	18.7	239	237.7	25.0	299	297.4	31.3	359	357.0	37.5
60	59.7	6.3	120	119.3	12.5	180	179.0	18.8	240	238.7	25.1	300	298.4	31.4	360	358.0	37.6

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	359.0	37.7	421	418.7	44.0	481	478.4	50.3	541	538.0	56.5	601	597.7	62.8	661	657.4	69.1
362	360.0	37.8	422	419.7	44.1	482	479.4	50.4	542	539.0	56.7	602	598.7	62.9	662	658.4	69.2
363	361.0	37.9	423	420.7	44.2	483	480.4	50.5	543	540.0	56.8	603	599.7	63.0	663	659.4	69.3
364	362.0	38.0	424	421.7	44.3	484	481.3	50.6	544	541.0	56.9	604	600.7	63.1	664	660.4	69.4
365	363.0	38.2	425	422.7	44.4	485	482.3	50.7	545	542.0	57.0	605	601.7	63.2	665	661.4	69.5
366	364.0	38.3	426	423.7	44.5	486	483.3	50.8	546	543.0	57.1	606	602.7	63.3	666	662.4	69.6
367	365.0	38.4	427	424.7	44.6	487	484.3	50.9	547	544.0	57.2	607	603.7	63.4	667	663.3	69.7
368	366.0	38.5	428	425.7	44.7	488	485.3	51.0	548	545.0	57.3	608	604.7	63.5	668	664.3	69.8
369	367.0	38.6	429	426.6	44.8	489	486.3	51.1	549	546.0	57.4	609	605.7	63.6	669	665.3	69.9
370	368.0	38.7	430	427.6	44.9	490	487.3	51.2	550	547.0	57.5	610	606.7	63.8	670	666.3	70.0
371	369.0	38.8	431	428.6	45.1	491	488.3	51.3	551	548.0	57.6	611	607.7	63.9	671	667.3	70.1
372	370.0	38.9	432	429.6	45.2	492	489.3	51.4	552	549.0	57.7	612	608.6	64.0	672	668.3	70.2
373	371.0	39.0	433	430.6	45.3	493	490.3	51.5	553	550.0	57.8	613	609.6	64.1	673	669.3	70.3
374	372.0	39.1	434	431.6	45.4	494	491.3	51.6	554	551.0	57.9	614	610.6	64.2	674	670.3	70.5
375	372.9	39.2	435	432.6	45.5	495	492.3	51.7	555	552.0	58.0	615	611.6	64.3	675	671.3	70.6
376	373.9	39.3	436	433.6	45.6	496	493.3	51.8	556	553.0	58.1	616	612.6	64.4	676	672.3	70.7
377	374.9	39.4	437	434.6	45.7	497	494.3	52.0	557	553.9	58.2	617	613.6	64.5	677	673.3	70.8
378	375.9	39.5	438	435.6	45.8	498	495.3	52.1	558	554.9	58.3	618	614.6	64.6	678	674.3	70.9
379	376.9	39.6	439	436.6	45.9	499	496.3	52.2	559	555.9	58.4	619	615.6	64.7	679	675.3	71.0
380	377.9	39.7	440	437.6	46.0	500	497.3	52.3	560	556.9	58.5	620	616.6	64.8	680	676.3	71.1
381	378.9	39.8	441	438.6	46.1	501	498.3	52.4	561	557.9	58.6	621	617.6	64.9	681	677.3	71.2
382	379.9	39.9	442	439.6	46.2	502	499.3	52.5	562	558.9	58.7	622	618.6	65.0	682	678.3	71.3
383	380.9	40.0	443	440.6	46.3	503	500.2	52.6	563	559.9	58.8	623	619.6	65.1	683	679.3	71.4
384	381.9	40.1	444	441.6	46.4	504	501.2	52.7	564	560.9	59.0	624	620.6	65.2	684	680.3	71.5
385	382.9	40.2	445	442.6	46.5	505	502.2	52.8	565	561.9	59.1	625	621.6	65.3	685	681.2	71.6
386	383.9	40.3	446	443.6	46.6	506	503.2	52.9	566	562.9	59.2	626	622.6	65.4	686	682.2	71.7
387	384.9	40.5	447	444.6	46.7	507	504.2	53.0	567	563.9	59.3	627	623.6	65.5	687	683.2	71.8
388	385.9	40.6	448	445.6	46.8	508	505.2	53.1	568	564.9	59.4	628	624.6	65.6	688	684.2	71.9
389	386.9	40.7	449	446.6	46.9	509	506.2	53.2	569	565.9	59.5	629	625.6	65.7	689	685.2	72.0
390	387.9	40.8	450	447.6	47.0	510	507.2	53.3	570	566.9	59.6	630	626.6	65.9	690	686.2	72.1
391	388.9	40.9	451	448.6	47.1	511	508.2	53.4	571	567.9	59.7	631	627.6	66.0	691	687.2	72.2
392	389.9	41.0	452	449.6	47.2	512	509.2	53.5	572	568.9	59.8	632	628.6	66.1	692	688.2	72.3
393	390.8	41.1	453	450.5	47.4	513	510.2	53.6	573	569.9	59.9	633	629.5	66.2	693	689.2	72.4
394	391.8	41.2	454	451.5	47.5	514	511.2	53.7	574	570.9	60.0	634	630.5	66.3	694	690.2	72.5
395	392.8	41.3	455	452.5	47.6	515	512.2	53.8	575	571.9	60.1	635	631.5	66.4	695	691.2	72.6
396	393.8	41.4	456	453.5	47.7	516	513.2	53.9	576	572.8	60.2	636	632.5	66.5	696	692.2	72.8
397	394.8	41.5	457	454.5	47.8	517	514.2	54.0	577	573.8	60.3	637	633.5	66.6	697	693.2	72.9
398	395.8	41.6	458	455.5	47.9	518	515.2	54.1	578	574.8	60.4	638	634.5	66.7	698	694.2	73.0
399	396.8	41.7	459	456.5	48.0	519	516.2	54.3	579	575.8	60.5	639	635.5	66.8	699	695.2	73.1
400	397.8	41.8	460	457.5	48.1	520	517.2	54.4	580	576.8	60.6	640	636.5	66.9	700	696.2	73.2
401	398.8	41.9	461	458.5	48.2	521	518.1	54.5	581	577.8	60.7	641	637.5	67.0	701	697.2	73.3
402	399.8	42.0	462	459.5	48.3	522	519.1	54.6	582	578.8	60.8	642	638.5	67.1	702	698.2	73.4
403	400.8	42.1	463	460.5	48.4	523	520.1	54.7	583	579.8	60.9	643	639.5	67.2	703	699.1	73.5
404	401.8	42.2	464	461.5	48.5	524	521.1	54.8	584	580.8	61.0	644	640.5	67.3	704	700.1	73.6
405	402.8	42.3	465	462.5	48.6	525	522.1	54.9	585	581.8	61.1	645	641.5	67.4	705	701.1	73.7
406	403.8	42.4	466	463.4	48.7	526	523.1	55.0	586	582.8	61.3	646	642.5	67.5	706	702.1	73.8
407	404.8	42.5	467	464.4	48.8	527	524.1	55.1	587	583.8	61.4	647	643.5	67.6	707	703.1	73.9
408	405.8	42.6	468	465.4	48.9	528	525.1	55.2	588	584.8	61.5	648	644.5	67.7	708	704.1	74.0
409	406.8	42.8	469	466.4	49.0	529	526.1	55.3	589	585.8	61.6	649	645.4	67.8	709	705.1	74.1
410	407.8	42.9	470	467.4	49.1	530	527.1	55.4	590	586.8	61.7	650	646.4	67.9	710	706.1	74.2
411	408.7	43.0	471	468.4	49.2	531	528.1	55.5	591	587.8	61.8	651	647.4	68.0	711	707.1	74.3
412	409.7	43.1	472	469.4	49.3	532	529.1	55.6	592	588.8	61.9	652	648.4	68.2	712	708.1	74.4
413	410.7	43.2	473	470.4	49.4	533	530.1	55.7	593	589.8	62.0	653	649.4	68.3	713	709.1	74.5
414	411.7	43.3	474	471.4	49.5	534	531.1	55.8	594	590.7	62.1	654	650.4	68.4	714	710.1	74.6
415	412.7	43.4	475	472.4	49.7	535	532.1	55.9	595	591.7	62.2	655	651.4	68.5	715	711.1	74.7
416	413.7	43.5	476	473.4	49.8	536	533.1	56.0	596	592.7	62.3	656	652.4	68.6	716	712.1	74.8
417	414.7	43.6	477	474.4	49.9	537	534.1	56.1	597	593.7	62.4	657	653.4	68.7	717	713.1	74.9
418	415.7	43.7	478	475.4	50.0	538	535.1	56.2	598	594.7	62.5	658	654.4	68.8	718	714.1	75.1
419	416.7	43.8	479	476.4	50.1	539	536.0	56.3	599	595.7	62.6	659	655.4	68.9	719	715.1	75.2
420	417.7	43.9	480	477.4	50.2	540	537.0	56.4	600	596.7	62.7	660	656.4	69.0	720	716.1	75.3
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	1-0	0-1	61	60-5	7-4	121	120-1	14-7	181	179-7	22-1	241	239-2	29-4	301	298-8	36-7
2	2-0	0-2	62	61-5	7-6	122	121-1	14-9	182	180-6	22-2	242	240-2	29-5	302	299-7	36-8
3	3-0	0-4	63	62-5	7-7	123	122-1	15-0	183	181-6	22-3	243	241-2	29-6	303	300-7	36-9
4	4-0	0-5	64	63-5	7-8	124	123-1	15-1	184	182-6	22-4	244	242-2	29-7	304	301-7	37-0
5	5-0	0-6	65	64-5	7-9	125	124-1	15-2	185	183-6	22-5	245	243-2	29-9	305	302-7	37-2
6	6-0	0-7	66	65-5	8-0	126	125-1	15-4	186	184-6	22-7	246	244-2	30-0	306	303-7	37-3
7	6-9	0-9	67	66-5	8-2	127	126-1	15-5	187	185-6	22-8	247	245-2	30-1	307	304-7	37-4
8	7-9	1-0	68	67-5	8-3	128	127-0	15-6	188	186-6	22-9	248	246-2	30-2	308	305-7	37-5
9	8-9	1-1	69	68-5	8-4	129	128-0	15-7	189	187-6	23-0	249	247-1	30-3	309	306-7	37-7
10	9-9	1-2	70	69-5	8-5	130	129-0	15-8	190	188-6	23-2	250	248-1	30-5	310	307-7	37-8
11	10-9	1-3	71	70-5	8-7	131	130-0	16-0	191	189-6	23-3	251	249-1	30-6	311	308-7	37-9
12	11-9	1-5	72	71-5	8-8	132	131-0	16-1	192	190-6	23-4	252	250-1	30-7	312	309-7	38-0
13	12-9	1-6	73	72-5	8-9	133	132-0	16-2	193	191-6	23-5	253	251-1	30-8	313	310-7	38-1
14	13-9	1-7	74	73-4	9-0	134	133-0	16-3	194	192-6	23-6	254	252-1	31-0	314	311-7	38-3
15	14-9	1-8	75	74-4	9-1	135	134-0	16-5	195	193-5	23-8	255	253-1	31-1	315	312-7	38-4
16	15-9	1-9	76	75-4	9-3	136	135-0	16-6	196	194-5	23-9	256	254-1	31-2	316	313-6	38-5
17	16-9	2-1	77	76-4	9-4	137	136-0	16-7	197	195-5	24-0	257	255-1	31-3	317	314-6	38-6
18	17-9	2-2	78	77-4	9-5	138	137-0	16-8	198	196-5	24-1	258	256-1	31-4	318	315-6	38-8
19	18-9	2-3	79	78-4	9-6	139	138-0	16-9	199	197-5	24-3	259	257-1	31-6	319	316-6	38-9
20	19-9	2-4	80	79-4	9-7	140	139-0	17-1	200	198-5	24-4	260	258-1	31-7	320	317-6	39-0
21	20-8	2-6	81	80-4	9-9	141	139-9	17-2	201	199-5	24-5	261	259-1	31-8	321	318-6	39-1
22	21-8	2-7	82	81-4	10-0	142	140-9	17-3	202	200-5	24-6	262	260-0	31-9	322	319-6	39-2
23	22-8	2-8	83	82-4	10-1	143	141-9	17-4	203	201-5	24-7	263	261-0	32-1	323	320-6	39-4
24	23-8	2-9	84	83-4	10-2	144	142-9	17-5	204	202-5	24-9	264	262-0	32-2	324	321-6	39-5
25	24-8	3-0	85	84-4	10-4	145	143-9	17-7	205	203-5	25-0	265	263-0	32-3	325	322-6	39-6
26	25-8	3-2	86	85-4	10-5	146	144-9	17-8	206	204-5	25-1	266	264-0	32-4	326	323-6	39-7
27	26-8	3-3	87	86-4	10-6	147	145-9	17-9	207	205-5	25-2	267	265-0	32-5	327	324-6	39-9
28	27-8	3-4	88	87-3	10-7	148	146-9	18-0	208	206-4	25-3	268	266-0	32-7	328	325-6	40-0
29	28-8	3-5	89	88-3	10-8	149	147-9	18-2	209	207-4	25-5	269	267-0	32-8	329	326-5	40-1
30	29-8	3-7	90	89-3	11-0	150	148-9	18-3	210	208-4	25-6	270	268-0	32-9	330	327-5	40-2
31	30-8	3-8	91	90-3	11-1	151	149-9	18-4	211	209-4	25-7	271	269-0	33-0	331	328-5	40-3
32	31-8	3-9	92	91-3	11-2	152	150-9	18-5	212	210-4	25-8	272	270-0	33-1	332	329-5	40-5
33	32-8	4-0	93	92-3	11-3	153	151-9	18-6	213	211-4	26-0	273	271-0	33-3	333	330-5	40-6
34	33-7	4-1	94	93-3	11-5	154	152-9	18-8	214	212-4	26-1	274	272-0	33-4	334	331-5	40-7
35	34-7	4-3	95	94-3	11-6	155	153-8	18-9	215	213-4	26-2	275	273-0	33-5	335	332-5	40-8
36	35-7	4-4	96	95-3	11-7	156	154-8	19-0	216	214-4	26-3	276	273-9	33-6	336	333-5	40-9
37	36-7	4-5	97	96-3	11-8	157	155-8	19-1	217	215-4	26-4	277	274-9	33-8	337	334-5	41-1
38	37-7	4-6	98	97-3	11-9	158	156-8	19-3	218	216-4	26-6	278	275-9	33-9	338	335-5	41-2
39	38-7	4-8	99	98-3	12-1	159	157-8	19-4	219	217-4	26-7	279	276-9	34-0	339	336-5	41-3
40	39-7	4-9	100	99-3	12-2	160	158-8	19-5	220	218-4	26-8	280	277-9	34-1	340	337-5	41-4
41	40-7	5-0	101	100-2	12-3	161	159-8	19-6	221	219-4	26-9	281	278-9	34-2	341	338-5	41-6
42	41-7	5-1	102	101-2	12-4	162	160-8	19-7	222	220-3	27-1	282	279-9	34-4	342	339-5	41-7
43	42-7	5-2	103	102-2	12-6	163	161-8	19-9	223	221-3	27-2	283	280-9	34-5	343	340-4	41-8
44	43-7	5-4	104	103-2	12-7	164	162-8	20-0	224	222-3	27-3	284	281-9	34-6	344	341-4	41-9
45	44-7	5-5	105	104-2	12-8	165	163-8	20-1	225	223-3	27-4	285	282-9	34-7	345	342-4	42-0
46	45-7	5-6	106	105-2	12-9	166	164-8	20-2	226	224-3	27-5	286	283-9	34-9	346	343-4	42-2
47	46-6	5-7	107	106-2	13-0	167	165-8	20-4	227	225-3	27-7	287	284-9	35-0	347	344-4	42-3
48	47-6	5-8	108	107-2	13-2	168	166-7	20-5	228	226-3	27-8	288	285-9	35-1	348	345-4	42-4
49	48-6	6-0	109	108-2	13-3	169	167-7	20-6	229	227-3	27-9	289	286-8	35-2	349	346-4	42-5
50	49-6	6-1	110	109-2	13-4	170	168-7	20-7	230	228-3	28-0	290	287-8	35-3	350	347-4	42-7
51	50-6	6-2	111	110-2	13-5	171	169-7	20-8	231	229-3	28-2	291	288-8	35-5	351	348-4	42-8
52	51-6	6-3	112	111-2	13-6	172	170-7	21-0	232	230-3	28-3	292	289-8	35-6	352	349-4	42-9
53	52-6	6-5	113	112-2	13-8	173	171-7	21-1	233	231-3	28-4	293	290-8	35-7	353	350-4	43-0
54	53-6	6-6	114	113-2	13-9	174	172-7	21-2	234	232-3	28-5	294	291-8	35-8	354	351-4	43-1
55	54-6	6-7	115	114-1	14-0	175	173-7	21-3	235	233-2	28-6	295	292-8	36-0	355	352-4	43-3
56	55-6	6-8	116	115-1	14-1	176	174-7	21-4	236	234-2	28-8	296	293-8	36-1	356	353-3	43-4
57	56-6	6-9	117	116-1	14-3	177	175-7	21-6	237	235-2	28-9	297	294-8	36-2	357	354-3	43-5
58	57-6	7-1	118	117-1	14-4	178	176-7	21-7	238	236-2	29-0	298	295-8	36-3	358	355-3	43-6
59	58-6	7-2	119	118-1	14-5	179	177-7	21-8	239	237-2	29-1	299	296-8	36-4	359	356-3	43-8
60	59-6	7-3	120	119-1	14-6	180	178-7	21-9	240	238-2	29-2	300	297-8	36-6	360	357-3	43-9

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	358·3	44·0	421	417·9	51·3	481	477·4	58·6	541	537·0	65·9	601	596·5	73·2	661	656·1	80·6
362	359·3	44·1	422	418·9	51·4	482	478·4	58·7	542	538·0	66·1	602	597·5	73·4	662	657·1	80·7
363	360·3	44·2	423	419·8	51·6	483	479·4	58·9	543	539·0	66·2	603	598·5	73·5	663	658·1	80·8
364	361·3	44·4	424	420·8	51·7	484	480·4	59·0	544	539·9	66·3	604	599·5	73·6	664	659·1	80·9
365	362·3	44·5	425	421·8	51·8	485	481·4	59·1	545	540·9	66·4	605	600·5	73·7	665	660·0	81·0
366	363·3	44·6	426	422·8	51·9	486	482·4	59·2	546	541·9	66·5	606	601·5	73·9	666	661·0	81·2
367	364·3	44·7	427	423·8	52·0	487	483·4	59·4	547	542·9	66·7	607	602·5	74·0	667	662·0	81·3
368	365·3	44·8	428	424·8	52·2	488	484·4	59·5	548	543·9	66·8	608	603·5	74·1	668	663·0	81·4
369	366·2	45·0	429	425·8	52·3	489	485·4	59·6	549	544·9	66·9	609	604·5	74·2	669	664·0	81·5
370	367·2	45·1	430	426·8	52·4	490	486·3	59·7	550	545·9	67·0	610	605·5	74·3	670	665·0	81·7
371	368·2	45·2	431	427·8	52·5	491	487·3	59·8	551	546·9	67·1	611	606·4	74·5	671	666·0	81·8
372	369·2	45·3	432	428·8	52·6	492	488·3	60·0	552	547·9	67·3	612	607·4	74·6	672	667·0	81·9
373	370·2	45·5	433	429·8	52·8	493	489·3	60·1	553	548·9	67·4	613	608·4	74·7	673	668·0	82·0
374	371·2	45·6	434	430·8	52·9	494	490·3	60·2	554	549·9	67·5	614	609·4	74·8	674	669·0	82·1
375	372·2	45·7	435	431·8	53·0	495	491·3	60·3	555	550·9	67·6	615	610·4	74·9	675	670·0	82·3
376	373·2	45·8	436	432·8	53·1	496	492·3	60·4	556	551·9	67·8	616	611·4	75·1	676	671·0	82·4
377	374·2	45·9	437	433·7	53·3	497	493·3	60·6	557	552·8	67·9	617	612·4	75·2	677	672·0	82·5
378	375·2	46·1	438	434·7	53·4	498	494·3	60·7	558	553·8	68·0	618	613·4	75·3	678	672·9	82·6
379	376·2	46·2	439	435·7	53·5	499	495·3	60·8	559	554·8	68·1	619	614·4	75·4	679	673·9	82·7
380	377·2	46·3	440	436·7	53·6	500	496·3	60·9	560	555·8	68·2	620	615·4	75·6	680	674·9	82·9
381	378·2	46·4	441	437·7	53·7	501	497·3	61·1	561	556·8	68·4	621	616·4	75·7	681	675·9	83·0
382	379·2	46·6	442	438·7	53·9	502	498·3	61·2	562	557·8	68·5	622	617·4	75·8	682	676·9	83·1
383	380·1	46·7	443	439·7	54·0	503	499·3	61·3	563	558·8	68·6	623	618·4	75·9	683	677·9	83·2
384	381·1	46·8	444	440·7	54·1	504	500·2	61·4	564	559·8	68·7	624	619·3	76·0	684	678·9	83·4
385	382·1	46·9	445	441·7	54·2	505	501·2	61·5	565	560·8	68·9	625	620·3	76·2	685	679·9	83·5
386	383·1	47·0	446	442·7	54·4	506	502·2	61·7	566	561·8	69·0	626	621·3	76·3	686	680·9	83·6
387	384·1	47·2	447	443·7	54·5	507	503·2	61·8	567	562·8	69·1	627	622·3	76·4	687	681·9	83·7
388	385·1	47·3	448	444·7	54·6	508	504·2	61·9	568	563·8	69·2	628	623·3	76·5	688	682·9	83·8
389	386·1	47·4	449	445·7	54·7	509	505·2	62·0	569	564·8	69·3	629	624·3	76·7	689	683·9	84·0
390	387·1	47·5	450	446·6	54·8	510	506·2	62·2	570	565·8	69·5	630	625·3	76·8	690	684·9	84·1
391	388·1	47·7	451	447·6	55·0	511	507·2	62·3	571	566·7	69·6	631	626·3	76·9	691	685·8	84·2
392	389·1	47·8	452	448·6	55·1	512	508·2	62·4	572	567·7	69·7	632	627·3	77·0	692	686·8	84·3
393	390·1	47·9	453	449·6	55·2	513	509·2	62·5	573	568·7	69·8	633	628·3	77·1	693	687·8	84·5
394	391·1	48·0	454	450·6	55·3	514	510·2	62·6	574	569·7	70·0	634	629·3	77·3	694	688·8	84·6
395	392·1	48·1	455	451·6	55·5	515	511·2	62·8	575	570·7	70·1	635	630·3	77·4	695	689·8	84·7
396	393·0	48·3	456	452·6	55·6	516	512·2	62·9	576	571·7	70·2	636	631·3	77·5	696	690·8	84·8
397	394·0	48·4	457	453·6	55·7	517	513·1	63·0	577	572·7	70·3	637	632·3	77·6	697	691·8	84·9
398	395·0	48·5	458	454·6	55·8	518	514·1	63·1	578	573·7	70·4	638	633·2	77·8	698	692·8	85·1
399	396·0	48·6	459	455·6	55·9	519	515·1	63·3	579	574·7	70·6	639	634·2	77·9	699	693·8	85·2
400	397·0	48·7	460	456·6	56·1	520	516·1	63·4	580	575·7	70·7	640	635·2	78·0	700	694·8	85·3
401	398·0	48·9	461	457·6	56·2	521	517·1	63·5	581	576·7	70·8	641	636·2	78·1	701	695·8	85·4
402	399·0	49·0	462	458·6	56·3	522	518·1	63·6	582	577·7	70·9	642	637·2	78·2	702	696·8	85·6
403	400·0	49·1	463	459·5	56·4	523	519·1	63·7	583	578·7	71·0	643	638·2	78·4	703	697·8	85·7
404	401·0	49·2	464	460·5	56·5	524	520·1	63·9	584	579·6	71·2	644	639·2	78·5	704	698·8	85·8
405	402·0	49·4	465	461·5	56·7	525	521·1	64·0	585	580·6	71·3	645	640·2	78·6	705	699·7	85·9
406	403·0	49·5	466	462·5	56·8	526	522·1	64·1	586	581·6	71·4	646	641·2	78·7	706	700·7	86·0
407	404·0	49·6	467	463·5	56·9	527	523·1	64·2	587	582·6	71·5	647	642·2	78·8	707	701·7	86·2
408	405·0	49·7	468	464·5	57·0	528	524·1	64·3	588	583·6	71·7	648	643·2	79·0	708	702·7	86·3
409	406·0	49·8	469	465·5	57·2	529	525·1	64·5	589	584·6	71·8	649	644·2	79·1	709	703·7	86·4
410	406·9	50·0	470	466·5	57·3	530	526·0	64·6	590	585·6	71·9	650	645·2	79·2	710	704·7	86·5
411	407·9	50·1	471	467·5	57·4	531	527·0	64·7	591	586·6	72·0	651	646·1	79·3	711	705·7	86·6
412	408·9	50·2	472	468·5	57·5	532	528·0	64·8	592	587·6	72·1	652	647·1	79·5	712	706·7	86·8
413	409·9	50·3	473	469·5	57·6	533	529·0	65·0	593	588·6	72·3	653	648·1	79·6	713	707·7	86·9
414	410·9	50·5	474	470·5	57·8	534	530·0	65·1	594	589·6	72·4	654	649·1	79·7	714	708·7	87·0
415	411·9	50·6	475	471·5	57·9	535	531·0	65·2	595	590·6	72·5	655	650·1	79·8	715	709·7	87·1
416	412·9	50·7	476	472·5	58·0	536	532·0	65·3	596	591·6	72·6	656	651·1	79·9	716	710·7	87·3
417	413·9	50·8	477	473·4	58·1	537	533·0	65·4	597	592·5	72·8	657	652·1	80·1	717	711·7	87·4
418	414·9	50·9	478	474·4	58·3	538	534·0	65·6	598	593·5	72·9	658	653·1	80·2	718	712·6	87·5
419	415·9	51·1	479	475·4	58·4	539	535·0	65·7	599	594·5	73·0	659	654·1	80·3	719	713·6	87·6
420	416·9	51·2	480	476·4	58·5	540	536·0	65·8	600	595·5	73·1	660	655·1	80·4	720	714·6	87·7

D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep
1	1.0	0.1	61	60.4	8.5	121	119.8	16.8	181	179.2	25.2	241	238.7	33.5	301	298.1	41.9
2	2.0	0.3	62	61.4	8.6	122	120.8	17.0	182	180.2	25.3	242	239.6	33.7	302	299.1	42.0
3	3.0	0.4	63	62.4	8.8	123	121.8	17.1	183	181.2	25.5	243	240.6	33.8	303	300.1	42.2
4	4.0	0.6	64	63.4	8.9	124	122.8	17.3	184	182.2	25.6	244	241.6	34.0	304	301.0	42.3
5	5.0	0.7	65	64.4	9.0	125	123.8	17.4	185	183.2	25.7	245	242.6	34.1	305	302.0	42.4
6	5.9	0.8	66	65.4	9.2	126	124.8	17.5	186	184.2	25.9	246	243.6	34.2	306	303.0	42.6
7	6.9	1.0	67	66.3	9.3	127	125.8	17.7	187	185.2	26.0	247	244.6	34.4	307	304.0	42.7
8	7.9	1.1	68	67.3	9.5	128	126.8	17.8	188	186.2	26.2	248	245.6	34.5	308	305.0	42.9
9	8.9	1.3	69	68.3	9.6	129	127.7	18.0	189	187.2	26.3	249	246.6	34.7	309	306.0	43.0
10	9.9	1.4	70	69.3	9.7	130	128.7	18.1	190	188.2	26.4	250	247.6	34.8	310	307.0	43.1
11	10.9	1.5	71	70.3	9.9	131	129.7	18.2	191	189.1	26.6	251	248.6	34.9	311	308.0	43.3
12	11.9	1.7	72	71.3	10.0	132	130.7	18.4	192	190.1	26.7	252	249.5	35.1	312	309.0	43.4
13	12.9	1.8	73	72.3	10.2	133	131.7	18.5	193	191.1	26.9	253	250.5	35.2	313	310.0	43.6
14	13.9	1.9	74	73.3	10.3	134	132.7	18.6	194	192.1	27.0	254	251.5	35.3	314	310.9	43.7
15	14.9	2.1	75	74.3	10.4	135	133.7	18.8	195	193.1	27.1	255	252.5	35.5	315	311.9	43.8
16	15.8	2.2	76	75.3	10.6	136	134.7	18.9	196	194.1	27.3	256	253.5	35.6	316	312.9	44.0
17	16.8	2.4	77	76.3	10.7	137	135.7	19.1	197	195.1	27.4	257	254.5	35.8	317	313.9	44.1
18	17.8	2.5	78	77.2	10.9	138	136.7	19.2	198	196.1	27.6	258	255.5	35.9	318	314.9	44.3
19	18.8	2.6	79	78.2	11.0	139	137.6	19.3	199	197.1	27.7	259	256.5	36.0	319	315.9	44.4
20	19.8	2.8	80	79.2	11.1	140	138.6	19.5	200	198.1	27.8	260	257.5	36.2	320	316.9	44.5
21	20.8	2.9	81	80.2	11.3	141	139.6	19.6	201	199.0	28.0	261	258.5	36.3	321	317.9	44.7
22	21.8	3.1	82	81.2	11.4	142	140.6	19.8	202	200.0	28.1	262	259.5	36.5	322	318.9	44.8
23	22.8	3.2	83	82.2	11.6	143	141.6	19.9	203	201.0	28.3	263	260.4	36.6	323	319.9	45.0
24	23.8	3.3	84	83.2	11.7	144	142.6	20.0	204	202.0	28.4	264	261.4	36.7	324	320.8	45.1
25	24.8	3.5	85	84.2	11.8	145	143.6	20.2	205	203.0	28.5	265	262.4	36.9	325	321.8	45.2
26	25.7	3.6	86	85.2	12.0	146	144.6	20.3	206	204.0	28.7	266	263.4	37.0	326	322.8	45.4
27	26.7	3.8	87	86.2	12.1	147	145.6	20.5	207	205.0	28.8	267	264.4	37.2	327	323.8	45.5
28	27.7	3.9	88	87.1	12.2	148	146.6	20.6	208	206.0	28.9	268	265.4	37.3	328	324.8	45.6
29	28.7	4.0	89	88.1	12.4	149	147.5	20.7	209	207.0	29.1	269	266.4	37.4	329	325.8	45.8
30	29.7	4.2	90	89.1	12.5	150	148.5	20.9	210	208.0	29.2	270	267.4	37.6	330	326.8	45.9
31	30.7	4.3	91	90.1	12.7	151	149.5	21.0	211	208.9	29.4	271	268.4	37.7	331	327.8	46.1
32	31.7	4.5	92	91.1	12.8	152	150.5	21.2	212	209.9	29.5	272	269.4	37.9	332	328.8	46.2
33	32.7	4.6	93	92.1	12.9	153	151.5	21.3	213	210.9	29.6	273	270.3	38.0	333	329.8	46.3
34	33.7	4.7	94	93.1	13.1	154	152.5	21.4	214	211.9	29.8	274	271.3	38.1	334	330.7	46.5
35	34.7	4.9	95	94.1	13.2	155	153.5	21.6	215	212.9	29.9	275	272.3	38.3	335	331.7	46.6
36	35.6	5.0	96	95.1	13.4	156	154.5	21.7	216	213.9	30.1	276	273.3	38.4	336	332.7	46.8
37	36.6	5.1	97	96.1	13.5	157	155.5	21.9	217	214.9	30.2	277	274.3	38.6	337	333.7	46.9
38	37.6	5.3	98	97.0	13.6	158	156.5	22.0	218	215.9	30.3	278	275.3	38.7	338	334.7	47.0
39	38.6	5.4	99	98.0	13.8	159	157.5	22.1	219	216.9	30.5	279	276.3	38.8	339	335.7	47.2
40	39.6	5.6	100	99.0	13.9	160	158.4	22.3	220	217.9	30.6	280	277.3	39.0	340	336.7	47.3
41	40.6	5.7	101	100.0	14.1	161	159.4	22.4	221	218.8	30.8	281	278.3	39.1	341	337.7	47.5
42	41.6	5.8	102	101.0	14.2	162	160.4	22.5	222	219.8	30.9	282	279.3	39.2	342	338.7	47.6
43	42.6	6.0	103	102.0	14.3	163	161.4	22.7	223	220.8	31.0	283	280.2	39.4	343	339.7	47.7
44	43.6	6.1	104	103.0	14.5	164	162.4	22.8	224	221.8	31.2	284	281.2	39.5	344	340.7	47.9
45	44.6	6.3	105	104.0	14.6	165	163.4	23.0	225	222.8	31.3	285	282.2	39.7	345	341.6	48.0
46	45.6	6.4	106	105.0	14.8	166	164.4	23.1	226	223.8	31.5	286	283.2	39.8	346	342.6	48.2
47	46.5	6.5	107	106.0	14.9	167	165.4	23.2	227	224.8	31.6	287	284.2	39.9	347	343.6	48.3
48	47.5	6.7	108	106.9	15.0	168	166.4	23.4	228	225.8	31.7	288	285.2	40.1	348	344.6	48.4
49	48.5	6.8	109	107.9	15.2	169	167.4	23.5	229	226.8	31.9	289	286.2	40.2	349	345.6	48.6
50	49.5	7.0	110	108.9	15.3	170	168.3	23.7	230	227.8	32.0	290	287.2	40.4	350	346.6	48.7
51	50.5	7.1	111	109.9	15.4	171	169.3	23.8	231	228.8	32.1	291	288.2	40.5	351	347.6	48.8
52	51.5	7.2	112	110.9	15.6	172	170.3	23.9	232	229.7	32.3	292	289.2	40.6	352	348.6	49.0
53	52.5	7.4	113	111.9	15.7	173	171.3	24.1	233	230.7	32.4	293	290.1	40.8	353	349.6	49.1
54	53.5	7.5	114	112.9	15.9	174	172.3	24.2	234	231.7	32.6	294	291.1	40.9	354	350.6	49.3
55	54.5	7.7	115	113.9	16.0	175	173.3	24.4	235	232.7	32.7	295	292.1	41.1	355	351.5	49.4
56	55.5	7.8	116	114.9	16.1	176	174.3	24.5	236	233.7	32.8	296	293.1	41.2	356	352.5	49.5
57	56.4	7.9	117	115.9	16.3	177	175.3	24.6	237	234.7	33.0	297	294.1	41.3	357	353.5	49.7
58	57.4	8.1	118	116.9	16.4	178	176.3	24.8	238	235.7	33.1	298	295.1	41.5	358	354.5	49.8
59	58.4	8.2	119	117.8	16.6	179	177.3	24.9	239	236.7	33.3	299	296.1	41.6	359	355.5	50.0
60	59.4	8.4	120	118.8	16.7	180	178.2	25.1	240	237.7	33.4	300	297.1	41.8	360	356.5	50.1
D	Dep	Δl	D	Dep	Δl	D	Dep	Δl	D	Dep	Δl	D	Dep	Δl	D	Dep	Δl

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	357.5	50.2	421	416.9	58.6	481	476.3	66.9	541	535.7	75.3	601	595.2	83.6	661	654.6	92.0
362	358.5	50.4	422	417.9	58.7	482	477.3	67.1	542	536.7	75.4	602	596.1	83.8	662	655.6	92.1
363	359.5	50.5	423	418.9	58.9	483	478.3	67.2	543	537.7	75.6	603	597.1	83.9	663	656.5	92.3
364	360.5	50.7	424	419.9	59.0	484	479.3	67.4	544	538.7	75.7	604	598.1	84.1	664	657.5	92.4
365	361.4	50.8	425	420.9	59.1	485	480.3	67.5	545	539.7	75.8	605	599.1	84.2	665	658.5	92.6
366	362.4	50.9	426	421.9	59.3	486	481.3	67.6	546	540.7	76.0	606	600.1	84.3	666	659.5	92.7
367	363.4	51.1	427	422.8	59.4	487	482.3	67.8	547	541.7	76.1	607	601.1	84.5	667	660.5	92.8
368	364.4	51.2	428	423.8	59.6	488	483.3	67.9	548	542.7	76.3	608	602.1	84.6	668	661.5	93.0
369	365.4	51.4	429	424.8	59.7	489	484.2	68.1	549	543.7	76.4	609	603.1	84.8	669	662.5	93.1
370	366.4	51.5	430	425.8	59.8	490	485.2	68.2	550	544.6	76.5	610	604.1	84.9	670	663.5	93.2
371	367.4	51.6	431	426.8	60.0	491	486.2	68.3	551	545.6	76.7	611	605.1	85.0	671	664.5	93.4
372	368.4	51.8	432	427.8	60.1	492	487.2	68.5	552	546.6	76.8	612	606.0	85.2	672	665.5	93.5
373	369.4	51.9	433	428.8	60.3	493	488.2	68.6	553	547.6	77.0	613	607.0	85.3	673	666.5	93.7
374	370.4	52.1	434	429.8	60.4	494	489.2	68.8	554	548.6	77.1	614	608.0	85.5	674	667.4	93.8
375	371.4	52.2	435	430.8	60.5	495	490.2	68.9	555	549.6	77.2	615	609.0	85.6	675	668.4	93.9
376	372.3	52.3	436	431.8	60.7	496	491.2	69.0	556	550.6	77.4	616	610.0	85.7	676	669.4	94.1
377	373.3	52.5	437	432.7	60.8	497	492.2	69.2	557	551.6	77.5	617	611.0	85.9	677	670.4	94.2
378	374.3	52.6	438	433.7	61.0	498	493.2	69.3	558	552.6	77.7	618	612.0	86.0	678	671.4	94.4
379	375.3	52.7	439	434.7	61.1	499	494.1	69.4	559	553.6	77.8	619	613.0	86.1	679	672.4	94.5
380	376.3	52.9	440	435.7	61.2	500	495.1	69.6	560	554.6	77.9	620	614.0	86.3	680	673.4	94.6
381	377.3	53.0	441	436.7	61.4	501	496.1	69.7	561	555.5	78.1	621	615.0	86.4	681	674.4	94.8
382	378.3	53.2	442	437.7	61.5	502	497.1	69.9	562	556.5	78.2	622	615.9	86.6	682	675.4	94.9
383	379.3	53.3	443	438.7	61.7	503	498.1	70.0	563	557.5	78.4	623	616.9	86.7	683	676.4	95.1
384	380.3	53.4	444	439.7	61.8	504	499.1	70.1	564	558.5	78.5	624	617.9	86.8	684	677.3	95.2
385	381.3	53.6	445	440.7	61.9	505	500.1	70.3	565	559.5	78.6	625	618.9	87.0	685	678.3	95.3
386	382.2	53.7	446	441.7	62.1	506	501.1	70.4	566	560.5	78.8	626	619.9	87.1	686	679.3	95.5
387	383.2	53.9	447	442.6	62.2	507	502.1	70.6	567	561.5	78.9	627	620.9	87.3	687	680.3	95.6
388	384.2	54.0	448	443.6	62.3	508	503.1	70.7	568	562.5	79.1	628	621.9	87.4	688	681.3	95.8
389	385.2	54.1	449	444.6	62.5	509	504.0	70.8	569	563.5	79.2	629	622.9	87.5	689	682.3	95.9
390	386.2	54.3	450	445.6	62.6	510	505.0	71.0	570	564.5	79.3	630	623.9	87.7	690	683.3	96.0
391	387.2	54.4	451	446.6	62.8	511	506.0	71.1	571	565.4	79.5	631	624.9	87.8	691	684.3	96.2
392	388.2	54.6	452	447.6	62.9	512	507.0	71.3	572	566.4	79.6	632	625.8	88.0	692	685.3	96.3
393	389.2	54.7	453	448.6	63.0	513	508.0	71.4	573	567.4	79.7	633	626.8	88.1	693	686.3	96.4
394	390.2	54.8	454	449.6	63.2	514	509.0	71.5	574	568.4	79.9	634	627.8	88.2	694	687.2	96.6
395	391.2	55.0	455	450.6	63.3	515	510.0	71.7	575	569.4	80.0	635	628.8	88.4	695	688.2	96.7
396	392.1	55.1	456	451.6	63.5	516	511.0	71.8	576	570.4	80.2	636	629.8	88.5	696	689.2	96.9
397	393.1	55.3	457	452.6	63.6	517	512.0	72.0	577	571.4	80.3	637	630.8	88.7	697	690.2	97.0
398	394.1	55.4	458	453.5	63.7	518	513.0	72.1	578	572.4	80.4	638	631.8	88.8	698	691.2	97.1
399	395.1	55.5	459	454.5	63.9	519	513.9	72.2	579	573.4	80.6	639	632.8	88.9	699	692.2	97.3
400	396.1	55.7	460	455.5	64.0	520	514.9	72.4	580	574.4	80.7	640	633.8	89.1	700	693.2	97.4
401	397.1	55.8	461	456.5	64.2	521	515.9	72.5	581	575.3	80.9	641	634.8	89.2	701	694.2	97.6
402	398.1	55.9	462	457.5	64.3	522	516.9	72.6	582	576.3	81.0	642	635.8	89.3	702	695.2	97.7
403	399.1	56.1	463	458.5	64.4	523	517.9	72.8	583	577.3	81.1	643	636.7	89.5	703	696.2	97.8
404	400.1	56.2	464	459.5	64.6	524	518.9	72.9	584	578.3	81.3	644	637.7	89.6	704	697.1	98.0
405	401.1	56.4	465	460.5	64.7	525	519.9	73.1	585	579.3	81.4	645	638.7	89.8	705	698.1	98.1
406	402.0	56.5	466	461.5	64.9	526	520.9	73.2	586	580.3	81.6	646	639.7	89.9	706	699.1	98.3
407	403.0	56.6	467	462.5	65.0	527	521.9	73.3	587	581.3	81.7	647	640.7	90.0	707	700.1	98.4
408	404.0	56.8	468	463.4	65.1	528	522.9	73.5	588	582.3	81.8	648	641.7	90.2	708	701.1	98.5
409	405.0	56.9	469	464.4	65.3	529	523.9	73.6	589	583.3	82.0	649	642.7	90.3	709	702.1	98.7
410	406.0	57.1	470	465.4	65.4	530	524.8	73.8	590	584.3	82.1	650	643.7	90.5	710	703.1	98.8
411	407.0	57.2	471	466.4	65.6	531	525.8	73.9	591	585.2	82.3	651	644.7	90.6	711	704.1	99.0
412	408.0	57.3	472	467.4	65.7	532	526.8	74.0	592	586.2	82.4	652	645.7	90.7	712	705.1	99.1
413	409.0	57.5	473	468.4	65.8	533	527.8	74.2	593	587.2	82.5	653	646.6	90.9	713	706.1	99.2
414	410.0	57.6	474	469.4	66.0	534	528.8	74.3	594	588.2	82.7	654	647.6	91.0	714	707.1	99.4
415	411.0	57.8	475	470.4	66.1	535	529.8	74.5	595	589.2	82.8	655	648.6	91.2	715	708.0	99.5
416	412.0	57.9	476	471.4	66.2	536	530.8	74.6	596	590.2	82.9	656	649.6	91.3	716	709.0	99.6
417	412.9	58.0	477	472.4	66.4	537	531.8	74.7	597	591.2	83.1	657	650.6	91.4	717	710.0	99.8
418	413.9	58.2	478	473.3	66.5	538	532.8	74.9	598	592.2	83.2	658	651.6	91.6	718	711.0	99.9
419	414.9	58.3	479	474.3	66.7	539	533.8	75.0	599	593.2	83.4	659	652.6	91.7	719	712.0	100.1
420	415.9	58.5	480	475.3	66.8	540	534.7	75.2	600	594.2	83.5	660	653.6	91.9	720	713.0	100.2

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	1.0	0.2	61	60.2	9.5	121	119.5	18.9	181	178.8	28.3	241	238.0	37.7	301	297.3	47.1
2	2.0	0.3	62	61.2	9.7	122	120.5	19.1	182	179.8	28.5	242	239.0	37.9	302	298.3	47.2
3	3.0	0.5	63	62.2	9.9	123	121.5	19.2	183	180.7	28.6	243	240.0	38.0	303	299.3	47.4
4	4.0	0.6	64	63.2	10.0	124	122.5	19.4	184	181.7	28.8	244	241.0	38.2	304	300.3	47.6
5	4.9	0.8	65	64.2	10.2	125	123.5	19.6	185	182.7	28.9	245	242.0	38.3	305	301.2	47.7
6	5.9	0.9	66	65.2	10.3	126	124.4	19.7	186	183.7	29.1	246	243.0	38.5	306	302.2	47.9
7	6.9	1.1	67	66.2	10.5	127	125.4	19.9	187	184.7	29.3	247	244.0	38.6	307	303.2	48.0
8	7.9	1.3	68	67.2	10.6	128	126.4	20.0	188	185.7	29.4	248	244.9	38.8	308	304.2	48.2
9	8.9	1.4	69	68.2	10.8	129	127.4	20.2	189	186.7	29.6	249	245.9	39.0	309	305.2	48.3
10	9.9	1.6	70	69.1	11.0	130	128.4	20.3	190	187.7	29.7	250	246.9	39.1	310	306.2	48.5
11	10.9	1.7	71	70.1	11.1	131	129.4	20.5	191	188.6	29.9	251	247.9	39.3	311	307.2	48.7
12	11.9	1.9	72	71.1	11.3	132	130.4	20.6	192	189.6	30.0	252	248.9	39.4	312	308.2	48.8
13	12.8	2.0	73	72.1	11.4	133	131.4	20.8	193	190.6	30.2	253	249.9	39.6	313	309.1	49.0
14	13.8	2.2	74	73.1	11.6	134	132.4	21.0	194	191.6	30.3	254	250.9	39.7	314	310.1	49.1
15	14.8	2.3	75	74.1	11.7	135	133.3	21.1	195	192.6	30.5	255	251.9	39.9	315	311.1	49.3
16	15.8	2.5	76	75.1	11.9	136	134.3	21.3	196	193.6	30.7	256	252.8	40.0	316	312.1	49.4
17	16.8	2.7	77	76.1	12.0	137	135.3	21.4	197	194.6	30.8	257	253.8	40.2	317	313.1	49.6
18	17.8	2.8	78	77.0	12.2	138	136.3	21.6	198	195.6	31.0	258	254.8	40.4	318	314.1	49.7
19	18.8	3.0	79	78.0	12.4	139	137.3	21.7	199	196.5	31.1	259	255.8	40.5	319	315.1	49.9
20	19.8	3.1	80	79.0	12.5	140	138.3	21.9	200	197.5	31.3	260	256.8	40.7	320	316.1	50.1
21	20.7	3.3	81	80.0	12.7	141	139.3	22.1	201	198.5	31.4	261	257.8	40.8	321	317.0	50.2
22	21.7	3.4	82	81.0	12.8	142	140.3	22.2	202	199.5	31.6	262	258.8	41.0	322	318.0	50.4
23	22.7	3.6	83	82.0	13.0	143	141.2	22.4	203	200.5	31.8	263	259.8	41.1	323	319.0	50.5
24	23.7	3.8	84	83.0	13.1	144	142.2	22.5	204	201.5	31.9	264	260.7	41.3	324	320.0	50.7
25	24.7	3.9	85	84.0	13.3	145	143.2	22.7	205	202.5	32.1	265	261.7	41.5	325	321.0	50.8
26	25.7	4.1	86	84.9	13.5	146	144.2	22.8	206	203.5	32.2	266	262.7	41.6	326	322.0	51.0
27	26.7	4.2	87	85.9	13.6	147	145.2	23.0	207	204.5	32.4	267	263.7	41.8	327	323.0	51.2
28	27.7	4.4	88	86.9	13.8	148	146.2	23.2	208	205.4	32.5	268	264.7	41.9	328	324.0	51.3
29	28.6	4.5	89	87.9	13.9	149	147.2	23.3	209	206.4	32.7	269	265.7	42.1	329	324.9	51.5
30	29.6	4.7	90	88.9	14.1	150	148.2	23.5	210	207.4	32.9	270	266.7	42.2	330	325.9	51.6
31	30.6	4.8	91	89.9	14.2	151	149.1	23.6	211	208.4	33.0	271	267.7	42.4	331	326.9	51.8
32	31.6	5.0	92	90.9	14.4	152	150.1	23.8	212	209.4	33.2	272	268.7	42.6	332	327.9	51.9
33	32.6	5.2	93	91.9	14.5	153	151.1	23.9	213	210.4	33.3	273	269.6	42.7	333	328.9	52.1
34	33.6	5.3	94	92.8	14.7	154	152.1	24.1	214	211.4	33.5	274	270.6	42.9	334	329.9	52.2
35	34.6	5.5	95	93.8	14.9	155	153.1	24.2	215	212.4	33.6	275	271.6	43.0	335	330.9	52.4
36	35.6	5.6	96	94.8	15.0	156	154.1	24.4	216	213.3	33.8	276	272.6	43.2	336	331.9	52.6
37	36.5	5.8	97	95.8	15.2	157	155.1	24.6	217	214.3	33.9	277	273.6	43.3	337	332.9	52.7
38	37.5	5.9	98	96.8	15.3	158	156.1	24.7	218	215.3	34.1	278	274.6	43.5	338	333.8	52.9
39	38.5	6.1	99	97.8	15.5	159	157.0	24.9	219	216.3	34.3	279	275.6	43.6	339	334.8	53.0
40	39.5	6.3	100	98.8	15.6	160	158.0	25.0	220	217.3	34.4	280	276.6	43.8	340	335.8	53.2
41	40.5	6.4	101	99.8	15.8	161	159.0	25.2	221	218.3	34.6	281	277.5	44.0	341	336.8	53.3
42	41.5	6.6	102	100.7	16.0	162	160.0	25.3	222	219.3	34.7	282	278.5	44.1	342	337.8	53.5
43	42.5	6.7	103	101.7	16.1	163	161.0	25.5	223	220.3	34.9	283	279.5	44.3	343	338.8	53.7
44	43.5	6.9	104	102.7	16.3	164	162.0	25.7	224	221.2	35.0	284	280.5	44.4	344	339.8	53.8
45	44.4	7.0	105	103.7	16.4	165	163.0	25.8	225	222.2	35.2	285	281.5	44.6	345	340.8	54.0
46	45.4	7.2	106	104.7	16.6	166	164.0	26.0	226	223.2	35.4	286	282.5	44.7	346	341.7	54.1
47	46.4	7.4	107	105.7	16.7	167	164.9	26.1	227	224.2	35.5	287	283.5	44.9	347	342.7	54.3
48	47.4	7.5	108	106.7	16.9	168	165.9	26.3	228	225.2	35.7	288	284.5	45.1	348	343.7	54.4
49	48.4	7.7	109	107.7	17.1	169	166.9	26.4	229	226.2	35.8	289	285.4	45.2	349	344.7	54.6
50	49.4	7.8	110	108.6	17.2	170	167.9	26.6	230	227.2	36.0	290	286.4	45.4	350	345.7	54.8
51	50.4	8.0	111	109.6	17.4	171	168.9	26.8	231	228.2	36.1	291	287.4	45.5	351	346.7	54.9
52	51.4	8.1	112	110.6	17.5	172	169.9	26.9	232	229.1	36.3	292	288.4	45.7	352	347.7	55.1
53	52.3	8.3	113	111.6	17.7	173	170.9	27.1	233	230.1	36.4	293	289.4	45.8	353	348.7	55.2
54	53.3	8.4	114	112.6	17.8	174	171.9	27.2	234	231.1	36.6	294	290.4	46.0	354	349.6	55.4
55	54.3	8.6	115	113.6	18.0	175	172.8	27.4	235	232.1	36.8	295	291.4	46.1	355	350.6	55.5
56	55.3	8.8	116	114.6	18.1	176	173.8	27.5	236	233.1	36.9	296	292.4	46.3	356	351.6	55.7
57	56.3	8.9	117	115.6	18.3	177	174.8	27.7	237	234.1	37.1	297	293.3	46.5	357	352.6	55.8
58	57.3	9.1	118	116.5	18.5	178	175.8	27.8	238	235.1	37.2	298	294.3	46.6	358	353.6	56.0
59	58.3	9.2	119	117.5	18.6	179	176.8	28.0	239	236.1	37.4	299	295.3	46.8	359	354.6	56.2
60	59.3	9.4	120	118.5	18.8	180	177.8	28.2	240	237.0	37.5	300	296.3	46.9	360	355.6	56.3
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	356·6	56·5	421	415·8	65·9	481	475·1	75·2	541	534·3	84·6	601	593·6	94·0	661	652·9	103·4
362	357·5	56·6	422	416·8	66·0	482	476·1	75·4	542	535·3	84·8	602	594·6	94·2	662	653·8	103·6
363	358·5	56·8	423	417·8	66·2	483	477·1	75·6	543	536·3	84·9	603	595·6	94·3	663	654·8	103·7
364	359·5	56·9	424	418·8	66·3	484	478·0	75·7	544	537·3	85·1	604	596·6	94·5	664	655·8	103·9
365	360·5	57·1	425	419·8	66·5	485	479·0	75·9	545	538·3	85·3	605	597·6	94·6	665	656·8	104·0
366	361·5	57·3	426	420·8	66·6	486	480·0	76·0	546	539·3	85·4	606	598·5	94·8	666	657·8	104·2
367	362·5	57·4	427	421·7	66·8	487	481·0	76·2	547	540·3	85·6	607	599·5	95·0	667	658·8	104·3
368	363·5	57·6	428	422·7	67·0	488	482·0	76·3	548	541·3	85·7	608	600·5	95·1	668	659·8	104·5
369	364·5	57·7	429	423·7	67·1	489	483·0	76·5	549	542·2	85·9	609	601·5	95·3	669	660·8	104·7
370	365·4	57·9	430	424·7	67·3	490	484·0	76·7	550	543·2	86·0	610	602·5	95·4	670	661·8	104·8
371	366·4	58·0	431	425·7	67·4	491	485·0	76·8	551	544·2	86·2	611	603·5	95·6	671	662·7	105·0
372	367·4	58·2	432	426·7	67·6	492	485·9	77·0	552	545·2	86·4	612	604·5	95·7	672	663·7	105·1
373	368·4	58·3	433	427·7	67·7	493	486·9	77·1	553	546·2	86·5	613	605·5	95·9	673	664·7	105·3
374	369·4	58·5	434	428·7	67·9	494	487·9	77·3	554	547·2	86·7	614	606·4	96·1	674	665·7	105·4
375	370·4	58·7	435	429·6	68·0	495	488·9	77·4	555	548·2	86·8	615	607·4	96·2	675	666·7	105·6
376	371·4	58·8	436	430·6	68·2	496	489·9	77·6	556	549·2	87·0	616	608·4	96·4	676	667·7	105·7
377	372·4	59·0	437	431·6	68·4	497	490·9	77·7	557	550·1	87·1	617	609·4	96·5	677	668·7	105·9
378	373·3	59·1	438	432·6	68·5	498	491·9	77·9	558	551·1	87·3	618	610·4	96·7	678	669·7	106·1
379	374·3	59·3	439	433·6	68·7	499	492·9	78·1	559	552·1	87·4	619	611·4	96·8	679	670·6	106·2
380	375·3	59·4	440	434·6	68·8	500	493·8	78·2	560	553·1	87·6	620	612·4	97·0	680	671·6	106·4
381	376·3	59·6	441	435·6	69·0	501	494·8	78·4	561	554·1	87·8	621	613·4	97·1	681	672·6	106·5
382	377·3	59·8	442	436·6	69·1	502	495·8	78·5	562	555·1	87·9	622	614·3	97·3	682	673·6	106·7
383	378·3	59·9	443	437·5	69·3	503	496·8	78·7	563	556·1	88·1	623	615·3	97·5	683	674·6	106·8
384	379·3	60·1	444	438·5	69·5	504	497·8	78·8	564	557·1	88·2	624	616·3	97·6	684	675·6	107·0
385	380·3	60·2	445	439·5	69·6	505	498·8	79·0	565	558·0	88·4	625	617·3	97·8	685	676·6	107·2
386	381·2	60·4	446	440·5	69·8	506	499·8	79·2	566	559·0	88·5	626	618·3	97·9	686	677·6	107·3
387	382·2	60·5	447	441·5	69·9	507	500·8	79·3	567	560·0	88·7	627	619·3	98·1	687	678·5	107·5
388	383·2	60·7	448	442·5	70·1	508	501·7	79·5	568	561·0	88·9	628	620·3	98·2	688	679·5	107·6
389	384·2	60·9	449	443·5	70·2	509	502·7	79·6	569	562·0	89·0	629	621·3	98·4	689	680·5	107·8
390	385·2	61·0	450	444·5	70·4	510	503·7	79·8	570	563·0	89·2	630	622·2	98·6	690	681·5	107·9
391	386·2	61·2	451	445·4	70·6	511	504·7	79·9	571	564·0	89·3	631	623·2	98·7	691	682·5	108·1
392	387·2	61·3	452	446·4	70·7	512	505·7	80·1	572	565·0	89·5	632	624·2	98·9	692	683·5	108·3
393	388·2	61·5	453	447·4	70·9	513	506·7	80·3	573	565·9	89·6	633	625·2	99·0	693	684·5	108·4
394	389·1	61·6	454	448·4	71·0	514	507·7	80·4	574	566·9	89·8	634	626·2	99·2	694	685·5	108·6
395	390·1	61·8	455	449·4	71·2	515	508·7	80·6	575	567·9	89·9	635	627·2	99·3	695	686·4	108·7
396	391·1	61·9	456	450·4	71·3	516	509·6	80·7	576	568·9	90·1	636	628·2	99·5	696	687·4	108·9
397	392·1	62·1	457	451·4	71·5	517	510·6	80·9	577	569·9	90·3	637	629·2	99·6	697	688·4	109·0
398	393·1	62·3	458	452·4	71·6	518	511·6	81·0	578	570·9	90·4	638	630·1	99·8	698	689·4	109·2
399	394·1	62·4	459	453·3	71·8	519	512·6	81·2	579	571·9	90·6	639	631·1	100·0	699	690·4	109·3
400	395·1	62·6	460	454·3	72·0	520	513·6	81·3	580	572·9	90·7	640	632·1	100·1	700	691·4	109·5
401	396·1	62·7	461	455·3	72·1	521	514·6	81·5	581	573·8	90·9	641	633·1	100·3	701	692·4	109·7
402	397·1	62·9	462	456·3	72·3	522	515·6	81·7	582	574·8	91·0	642	634·1	100·4	702	693·4	109·8
403	398·0	63·0	463	457·3	72·4	523	516·6	81·8	583	575·8	91·2	643	635·1	100·6	703	694·3	110·0
404	399·0	63·2	464	458·3	72·6	524	517·5	82·0	584	576·8	91·4	644	636·1	100·7	704	695·3	110·1
405	400·0	63·4	465	459·3	72·7	525	518·5	82·1	585	577·8	91·5	645	637·1	100·9	705	696·3	110·3
406	401·0	63·5	466	460·3	72·9	526	519·5	82·3	586	578·8	91·7	646	638·0	101·1	706	697·3	110·4
407	402·0	63·7	467	461·3	73·1	527	520·5	82·4	587	579·8	91·8	647	639·0	101·2	707	698·3	110·6
408	403·0	63·8	468	462·2	73·2	528	521·5	82·6	588	580·8	92·0	648	640·0	101·4	708	699·3	110·8
409	404·0	64·0	469	463·2	73·4	529	522·5	82·8	589	581·7	92·1	649	641·0	101·5	709	700·3	110·9
410	405·0	64·1	470	464·2	73·5	530	523·5	82·9	590	582·7	92·3	650	642·0	101·7	710	701·3	111·1
411	405·9	64·3	471	465·2	73·7	531	524·5	83·1	591	583·7	92·5	651	643·0	101·8	711	702·2	111·2
412	406·9	64·5	472	466·2	73·8	532	525·5	83·2	592	584·7	92·6	652	644·0	102·0	712	703·2	111·4
413	407·9	64·6	473	467·2	74·0	533	526·4	83·4	593	585·7	92·8	653	645·0	102·2	713	704·2	111·5
414	408·9	64·8	474	468·2	74·1	534	527·4	83·5	594	586·7	92·9	654	645·9	102·3	714	705·2	111·7
415	409·9	64·9	475	469·2	74·3	535	528·4	83·7	595	587·7	93·1	655	646·9	102·5	715	706·2	111·9
416	410·9	65·1	476	470·1	74·5	536	529·4	83·8	596	588·7	93·2	656	647·9	102·6	716	707·2	112·0
417	411·9	65·2	477	471·1	74·6	537	530·4	84·0	597	589·6	93·4	657	648·9	102·8	717	708·2	112·2
418	412·9	65·4	478	472·1	74·8	538	531·4	84·2	598	590·6	93·5	658	649·9	102·9	718	709·2	112·3
419	413·8	65·5	479	473·1	74·9	539	532·4	84·3	599	591·6	93·7	659	650·9	103·1	719	710·1	112·5
420	414·8	65·7	480	474·1	75·1	540	533·4	84·5	600	592·6	93·9	660	651·9	103·2	720	711·1	112·6

D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI
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D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	1.0	0.2	61	60.1	10.6	121	119.2	21.0	181	178.3	31.4	241	237.3	41.8	301	296.4	52.3
2	2.0	0.3	62	61.1	10.8	122	120.1	21.2	182	179.2	31.6	242	238.3	42.0	302	297.4	52.4
3	3.0	0.5	63	62.0	10.9	123	121.1	21.4	183	180.2	31.8	243	239.3	42.2	303	298.4	52.6
4	3.9	0.7	64	63.0	11.1	124	122.1	21.5	184	181.2	32.0	244	240.3	42.4	304	299.4	52.8
5	4.9	0.9	65	64.0	11.3	125	123.1	21.7	185	182.2	32.1	245	241.3	42.5	305	300.4	53.0
6	5.9	1.0	66	65.0	11.5	126	124.1	21.9	186	183.2	32.3	246	242.3	42.7	306	301.4	53.1
7	6.9	1.2	67	66.0	11.6	127	125.1	22.1	187	184.2	32.5	247	243.2	42.9	307	302.3	53.3
8	7.9	1.4	68	67.0	11.8	128	126.1	22.2	188	185.1	32.6	248	244.2	43.1	308	303.3	53.5
9	8.9	1.6	69	68.0	12.0	129	127.0	22.4	189	186.1	32.8	249	245.2	43.2	309	304.3	53.7
10	9.8	1.7	70	68.9	12.2	130	128.0	22.6	190	187.1	33.0	250	246.2	43.4	310	305.3	53.8
11	10.8	1.9	71	69.9	12.3	131	129.0	22.7	191	188.1	33.2	251	247.2	43.6	311	306.3	54.0
12	11.8	2.1	72	70.9	12.5	132	130.0	22.9	192	189.1	33.3	252	248.2	43.8	312	307.3	54.2
13	12.8	2.3	73	71.9	12.7	133	131.0	23.1	193	190.1	33.5	253	249.2	43.9	313	308.2	54.4
14	13.8	2.4	74	72.9	12.8	134	132.0	23.3	194	191.1	33.7	254	250.1	44.1	314	309.2	54.5
15	14.8	2.6	75	73.9	13.0	135	132.9	23.4	195	192.0	33.9	255	251.1	44.3	315	310.2	54.7
16	15.8	2.8	76	74.8	13.2	136	133.9	23.6	196	193.0	34.0	256	252.1	44.5	316	311.2	54.9
17	16.7	3.0	77	75.8	13.4	137	134.9	23.8	197	194.0	34.2	257	253.1	44.6	317	312.2	55.0
18	17.7	3.1	78	76.8	13.5	138	135.9	24.0	198	195.0	34.4	258	254.1	44.8	318	313.2	55.2
19	18.7	3.3	79	77.8	13.7	139	136.9	24.1	199	196.0	34.6	259	255.1	45.0	319	314.2	55.4
20	19.7	3.5	80	78.8	13.9	140	137.9	24.3	200	197.0	34.7	260	256.1	45.1	320	315.1	55.6
21	20.7	3.6	81	79.8	14.1	141	138.9	24.5	201	197.9	34.9	261	257.0	45.3	321	316.1	55.7
22	21.7	3.8	82	80.8	14.2	142	139.8	24.7	202	198.9	35.1	262	258.0	45.5	322	317.1	55.9
23	22.7	4.0	83	81.7	14.4	143	140.8	24.8	203	199.9	35.3	263	259.0	45.7	323	318.1	56.1
24	23.6	4.2	84	82.7	14.6	144	141.8	25.0	204	200.9	35.4	264	260.0	45.8	324	319.1	56.3
25	24.6	4.3	85	83.7	14.8	145	142.8	25.2	205	201.9	35.6	265	261.0	46.0	325	320.1	56.4
26	25.6	4.5	86	84.7	14.9	146	143.8	25.4	206	202.9	35.8	266	262.0	46.2	326	321.0	56.6
27	26.6	4.7	87	85.7	15.1	147	144.8	25.5	207	203.9	35.9	267	262.9	46.4	327	322.0	56.8
28	27.6	4.9	88	86.7	15.3	148	145.8	25.7	208	204.8	36.1	268	263.9	46.5	328	323.0	57.0
29	28.6	5.0	89	87.6	15.5	149	146.7	25.9	209	205.8	36.3	269	264.9	46.7	329	324.0	57.1
30	29.5	5.2	90	88.6	15.6	150	147.7	26.0	210	206.8	36.5	270	265.9	46.9	330	325.0	57.3
31	30.5	5.4	91	89.6	15.8	151	148.7	26.2	211	207.8	36.6	271	266.9	47.1	331	326.0	57.5
32	31.5	5.6	92	90.6	16.0	152	149.7	26.4	212	208.8	36.8	272	267.9	47.2	332	327.0	57.7
33	32.5	5.7	93	91.6	16.1	153	150.7	26.6	213	209.8	37.0	273	268.9	47.4	333	327.9	57.8
34	33.5	5.9	94	92.6	16.3	154	151.7	26.7	214	210.7	37.2	274	269.8	47.6	334	328.9	58.0
35	34.5	6.1	95	93.6	16.5	155	152.6	26.9	215	211.7	37.3	275	270.8	47.8	335	329.9	58.2
36	35.5	6.3	96	94.5	16.7	156	153.6	27.1	216	212.7	37.5	276	271.8	47.9	336	330.9	58.3
37	36.4	6.4	97	95.5	16.8	157	154.6	27.3	217	213.7	37.7	277	272.8	48.1	337	331.9	58.5
38	37.4	6.6	98	96.5	17.0	158	155.6	27.4	218	214.7	37.9	278	273.8	48.3	338	332.9	58.7
39	38.4	6.8	99	97.5	17.2	159	156.6	27.6	219	215.7	38.0	279	274.8	48.4	339	333.8	58.9
40	39.4	6.9	100	98.5	17.4	160	157.6	27.8	220	216.7	38.2	280	275.7	48.6	340	334.8	59.0
41	40.4	7.1	101	99.5	17.5	161	158.6	28.0	221	217.6	38.4	281	276.7	48.8	341	335.8	59.2
42	41.4	7.3	102	100.5	17.7	162	159.5	28.1	222	218.6	38.5	282	277.7	49.0	342	336.8	59.4
43	42.3	7.5	103	101.4	17.9	163	160.5	28.3	223	219.6	38.7	283	278.7	49.1	343	337.8	59.6
44	43.3	7.6	104	102.4	18.1	164	161.5	28.5	224	220.6	38.9	284	279.7	49.3	344	338.8	59.7
45	44.3	7.8	105	103.4	18.2	165	162.5	28.7	225	221.6	39.1	285	280.7	49.5	345	339.8	59.9
46	45.3	8.0	106	104.4	18.4	166	163.5	28.8	226	222.6	39.2	286	281.7	49.7	346	340.7	60.1
47	46.3	8.2	107	105.4	18.6	167	164.5	29.0	227	223.6	39.4	287	282.6	49.8	347	341.7	60.3
48	47.3	8.3	108	106.4	18.8	168	165.4	29.2	228	224.5	39.6	288	283.6	50.0	348	342.7	60.4
49	48.3	8.5	109	107.3	18.9	169	166.4	29.3	229	225.5	39.8	289	284.6	50.2	349	343.7	60.6
50	49.2	8.7	110	108.3	19.1	170	167.4	29.5	230	226.5	39.9	290	285.6	50.4	350	344.7	60.8
51	50.2	8.9	111	109.3	19.3	171	168.4	29.7	231	227.5	40.1	291	286.6	50.5	351	345.7	61.0
52	51.2	9.0	112	110.3	19.4	172	169.4	29.9	232	228.5	40.3	292	287.6	50.7	352	346.7	61.1
53	52.2	9.2	113	111.3	19.6	173	170.4	30.0	233	229.5	40.5	293	288.5	50.9	353	347.6	61.3
54	53.2	9.4	114	112.3	19.8	174	171.4	30.2	234	230.4	40.6	294	289.5	51.1	354	348.6	61.5
55	54.2	9.6	115	113.3	20.0	175	172.3	30.4	235	231.4	40.8	295	290.5	51.2	355	349.6	61.6
56	55.1	9.7	116	114.2	20.1	176	173.3	30.6	236	232.4	41.0	296	291.5	51.4	356	350.6	61.8
57	56.1	9.9	117	115.2	20.3	177	174.3	30.7	237	233.4	41.2	297	292.5	51.6	357	351.6	62.0
58	57.1	10.1	118	116.2	20.5	178	175.3	30.9	238	234.4	41.3	298	293.5	51.7	358	352.6	62.2
59	58.1	10.2	119	117.2	20.7	179	176.3	31.1	239	235.4	41.5	299	294.5	51.9	359	353.5	62.3
60	59.1	10.4	120	118.2	20.8	180	177.3	31.3	240	236.4	41.7	300	295.4	52.1	360	354.5	62.5
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	355.5	62.7	421	414.6	73.1	481	473.7	83.5	541	532.8	93.9	601	591.9	104.4	661	651.0	114.8
362	356.5	62.9	422	415.6	73.3	482	474.7	83.7	542	533.8	94.1	602	592.9	104.5	662	651.9	115.0
363	357.5	63.0	423	416.6	73.5	483	475.7	83.9	543	534.8	94.3	603	593.8	104.7	663	652.9	115.1
364	358.5	63.2	424	417.6	73.6	484	476.6	84.0	544	535.7	94.5	604	594.8	104.9	664	653.9	115.3
365	359.5	63.4	425	418.5	73.8	485	477.6	84.2	545	536.7	94.6	605	595.8	105.1	665	654.9	115.5
366	360.4	63.6	426	419.5	74.0	486	478.6	84.4	546	537.7	94.8	606	596.8	105.2	666	655.9	115.6
367	361.4	63.7	427	420.5	74.1	487	479.6	84.6	547	538.7	95.0	607	597.8	105.4	667	656.9	115.8
368	362.4	63.9	428	421.5	74.3	488	480.6	84.7	548	539.7	95.2	608	598.8	105.6	668	657.9	116.0
369	363.4	64.1	429	422.5	74.5	489	481.6	84.9	549	540.7	95.3	609	599.7	105.8	669	658.8	116.2
370	364.4	64.2	430	423.5	74.7	490	482.6	85.1	550	541.6	95.5	610	600.7	105.9	670	659.8	116.3
371	365.4	64.4	431	424.5	74.8	491	483.5	85.3	551	542.6	95.7	611	601.7	106.1	671	660.8	116.5
372	366.3	64.6	432	425.4	75.0	492	484.5	85.4	552	543.6	95.9	612	602.7	106.3	672	661.8	116.7
373	367.3	64.8	433	426.4	75.2	493	485.5	85.6	553	544.6	96.0	613	603.7	106.4	673	662.8	116.9
374	368.3	64.9	434	427.4	75.4	494	486.5	85.8	554	545.6	96.2	614	604.7	106.6	674	663.8	117.0
375	369.3	65.1	435	428.4	75.5	495	487.5	86.0	555	546.6	96.4	615	605.7	106.8	675	664.7	117.2
376	370.3	65.3	436	429.4	75.7	496	488.5	86.1	556	547.6	96.5	616	606.6	107.0	676	665.7	117.4
377	371.3	65.5	437	430.4	75.9	497	489.4	86.3	557	548.5	96.7	617	607.6	107.1	677	666.7	117.6
378	372.3	65.6	438	431.3	76.1	498	490.4	86.5	558	549.5	96.9	618	608.6	107.3	678	667.7	117.7
379	373.2	65.8	439	432.3	76.2	499	491.4	86.7	559	550.5	97.1	619	609.6	107.5	679	668.7	117.9
380	374.2	66.0	440	433.3	76.4	500	492.4	86.8	560	551.5	97.2	620	610.6	107.7	680	669.7	118.1
381	375.2	66.2	441	434.3	76.6	501	493.4	87.0	561	552.5	97.4	621	611.6	107.8	681	670.7	118.3
382	376.2	66.3	442	435.3	76.8	502	494.4	87.2	562	553.5	97.6	622	612.6	108.0	682	671.6	118.4
383	377.2	66.5	443	436.3	76.9	503	495.4	87.3	563	554.4	97.8	623	613.5	108.2	683	672.6	118.6
384	378.2	66.7	444	437.3	77.1	504	496.3	87.5	564	555.4	97.9	624	614.5	108.4	684	673.6	118.8
385	379.2	66.9	445	438.2	77.3	505	497.3	87.7	565	556.4	98.1	625	615.5	108.5	685	674.6	118.9
386	380.1	67.0	446	439.2	77.4	506	498.3	87.9	566	557.4	98.3	626	616.5	108.7	686	675.6	119.1
387	381.1	67.2	447	440.2	77.6	507	499.3	88.0	567	558.4	98.5	627	617.5	108.9	687	676.6	119.3
388	382.1	67.4	448	441.2	77.8	508	500.3	88.2	568	559.4	98.6	628	618.5	109.1	688	677.5	119.5
389	383.1	67.5	449	442.2	78.0	509	501.3	88.4	569	560.4	98.8	629	619.4	109.2	689	678.5	119.6
390	384.1	67.7	450	443.2	78.1	510	502.3	88.6	570	561.3	99.0	630	620.4	109.4	690	679.5	119.8
391	385.1	67.9	451	444.1	78.3	511	503.2	88.7	571	562.3	99.2	631	621.4	109.6	691	680.5	120.0
392	386.0	68.1	452	445.1	78.5	512	504.2	88.9	572	563.3	99.3	632	622.4	109.7	692	681.5	120.2
393	387.0	68.2	453	446.1	78.7	513	505.2	89.1	573	564.3	99.5	633	623.4	109.9	693	682.5	120.3
394	388.0	68.4	454	447.1	78.8	514	506.2	89.3	574	565.3	99.7	634	624.4	110.1	694	683.5	120.5
395	389.0	68.6	455	448.1	79.0	515	507.2	89.4	575	566.3	99.8	635	625.4	110.3	695	684.4	120.7
396	390.0	68.8	456	449.1	79.2	516	508.2	89.6	576	567.2	100.0	636	626.3	110.4	696	685.4	120.9
397	391.0	68.9	457	450.1	79.4	517	509.1	89.8	577	568.2	100.2	637	627.3	110.6	697	686.4	121.0
398	392.0	69.1	458	451.0	79.5	518	510.1	89.9	578	569.2	100.4	638	628.3	110.8	698	687.4	121.2
399	392.9	69.3	459	452.0	79.7	519	511.1	90.1	579	570.2	100.5	639	629.3	111.0	699	688.4	121.4
400	393.9	69.5	460	453.0	79.9	520	512.1	90.3	580	571.2	100.7	640	630.3	111.1	700	689.4	121.6
401	394.9	69.6	461	454.0	80.1	521	513.1	90.5	581	572.2	100.9	641	631.3	111.3	701	690.4	121.7
402	395.9	69.8	462	455.0	80.2	522	514.1	90.6	582	573.2	101.1	642	632.2	111.5	702	691.3	121.9
403	396.9	70.0	463	456.0	80.4	523	515.1	90.8	583	574.1	101.2	643	633.2	111.7	703	692.3	122.1
404	397.9	70.2	464	457.0	80.6	524	516.0	91.0	584	575.1	101.4	644	634.2	111.8	704	693.3	122.2
405	398.8	70.3	465	457.9	80.7	525	517.0	91.2	585	576.1	101.6	645	635.2	112.0	705	694.3	122.4
406	399.8	70.5	466	458.9	80.9	526	518.0	91.3	586	577.1	101.8	646	636.2	112.2	706	695.3	122.6
407	400.8	70.7	467	459.9	81.1	527	519.0	91.5	587	578.1	101.9	647	637.2	112.4	707	696.3	122.8
408	401.8	70.8	468	460.9	81.3	528	520.0	91.7	588	579.1	102.1	648	638.2	112.5	708	697.2	122.9
409	402.8	71.0	469	461.9	81.4	529	521.0	91.9	589	580.1	102.3	649	639.1	112.7	709	698.2	123.1
410	403.8	71.2	470	462.9	81.6	530	521.9	92.0	590	581.0	102.5	650	640.1	112.9	710	699.2	123.3
411	404.8	71.4	471	463.8	81.8	531	522.9	92.2	591	582.0	102.6	651	641.1	113.0	711	700.2	123.5
412	405.7	71.5	472	464.8	82.0	532	523.9	92.4	592	583.0	102.8	652	642.1	113.2	712	701.2	123.6
413	406.7	71.7	473	465.8	82.1	533	524.9	92.6	593	584.0	103.0	653	643.1	113.4	713	702.2	123.8
414	407.7	71.9	474	466.8	82.3	534	525.9	92.7	594	585.0	103.1	654	644.1	113.6	714	703.2	124.0
415	408.7	72.1	475	467.8	82.5	535	526.9	92.9	595	586.0	103.3	655	645.0	113.7	715	704.1	124.2
416	409.7	72.2	476	468.8	82.7	536	527.9	93.1	596	586.9	103.5	656	646.0	113.9	716	705.1	124.3
417	410.7	72.4	477	469.8	82.8	537	528.8	93.2	597	587.9	103.7	657	647.0	114.1	717	706.1	124.5
418	411.6	72.6	478	470.7	83.0	538	529.8	93.4	598	588.9	103.8	658	648.0	114.3	718	707.1	124.7
419	412.6	72.8	479	471.7	83.2	539	530.8	93.6	599	589.9	104.0	659	649.0	114.4	719	708.1	124.9
420	413.6	72.9	480	472.7	83.4	540	531.8	93.8	600	590.9	104.2	660	650.0	114.6	720	709.1	125.0

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	1.0	0.2	61	59.9	11.6	121	118.8	23.1	181	177.7	34.5	241	236.6	46.0	301	295.5	57.4
2	2.0	0.4	62	60.9	11.8	122	119.8	23.3	182	178.7	34.7	242	237.6	46.2	302	296.5	57.6
3	2.9	0.6	63	61.8	12.0	123	120.7	23.5	183	179.6	34.9	243	238.5	46.4	303	297.4	57.8
4	3.9	0.8	64	62.8	12.2	124	121.7	23.7	184	180.6	35.1	244	239.5	46.6	304	298.4	58.0
5	4.9	1.0	65	63.8	12.4	125	122.7	23.9	185	181.6	35.3	245	240.5	46.7	305	299.4	58.2
6	5.9	1.1	66	64.8	12.6	126	123.7	24.0	186	182.6	35.5	246	241.5	46.9	306	300.4	58.4
7	6.9	1.3	67	65.8	12.8	127	124.7	24.2	187	183.6	35.7	247	242.5	47.1	307	301.4	58.6
8	7.9	1.5	68	66.8	13.0	128	125.6	24.4	188	184.5	35.9	248	243.4	47.3	308	302.3	58.8
9	8.8	1.7	69	67.7	13.2	129	126.6	24.6	189	185.5	36.1	249	244.4	47.5	309	303.3	59.0
10	9.8	1.9	70	68.7	13.4	130	127.6	24.8	190	186.5	36.3	250	245.4	47.7	310	304.3	59.2
11	10.8	2.1	71	69.7	13.5	131	128.6	25.0	191	187.5	36.4	251	246.4	47.9	311	305.3	59.3
12	11.8	2.3	72	70.7	13.7	132	129.6	25.2	192	188.5	36.6	252	247.4	48.1	312	306.3	59.5
13	12.8	2.5	73	71.7	13.9	133	130.6	25.4	193	189.5	36.8	253	248.4	48.3	313	307.2	59.7
14	13.7	2.7	74	72.6	14.1	134	131.5	25.6	194	190.4	37.0	254	249.3	48.5	314	308.2	59.9
15	14.7	2.9	75	73.6	14.3	135	132.5	25.8	195	191.4	37.2	255	250.3	48.7	315	309.2	60.1
16	15.7	3.1	76	74.6	14.5	136	133.5	26.0	196	192.4	37.4	256	251.3	48.8	316	310.2	60.3
17	16.7	3.2	77	75.6	14.7	137	134.5	26.1	197	193.4	37.6	257	252.3	49.0	317	311.2	60.5
18	17.7	3.4	78	76.6	14.9	138	135.5	26.3	198	194.4	37.8	258	253.3	49.2	318	312.2	60.7
19	18.7	3.6	79	77.5	15.1	139	136.4	26.5	199	195.3	38.0	259	254.2	49.4	319	313.1	60.9
20	19.6	3.8	80	78.5	15.3	140	137.4	26.7	200	196.3	38.2	260	255.2	49.6	320	314.1	61.1
21	20.6	4.0	81	79.5	15.5	141	138.4	26.9	201	197.3	38.4	261	256.2	49.8	321	315.1	61.2
22	21.6	4.2	82	80.5	15.6	142	139.4	27.1	202	198.3	38.5	262	257.2	50.0	322	316.1	61.4
23	22.6	4.4	83	81.5	15.8	143	140.4	27.3	203	199.3	38.7	263	258.2	50.2	323	317.1	61.6
24	23.6	4.6	84	82.5	16.0	144	141.4	27.5	204	200.3	38.9	264	259.1	50.4	324	318.0	61.8
25	24.5	4.8	85	83.4	16.2	145	142.3	27.7	205	201.2	39.1	265	260.1	50.6	325	319.0	62.0
26	25.5	5.0	86	84.4	16.4	146	143.3	27.9	206	202.2	39.3	266	261.1	50.8	326	320.0	62.2
27	26.5	5.2	87	85.4	16.6	147	144.3	28.0	207	203.2	39.5	267	262.1	50.9	327	321.0	62.4
28	27.5	5.3	88	86.4	16.8	148	145.3	28.2	208	204.2	39.7	268	263.1	51.1	328	322.0	62.6
29	28.5	5.5	89	87.4	17.0	149	146.3	28.4	209	205.2	39.9	269	264.1	51.3	329	323.0	62.8
30	29.4	5.7	90	88.3	17.2	150	147.2	28.6	210	206.1	40.1	270	265.0	51.5	330	323.9	63.0
31	30.4	5.9	91	89.3	17.4	151	148.2	28.8	211	207.1	40.3	271	266.0	51.7	331	324.9	63.2
32	31.4	6.1	92	90.3	17.6	152	149.2	29.0	212	208.1	40.5	272	267.0	51.9	332	325.9	63.3
33	32.4	6.3	93	91.3	17.7	153	150.2	29.2	213	209.1	40.6	273	268.0	52.1	333	326.9	63.5
34	33.4	6.5	94	92.3	17.9	154	151.2	29.4	214	210.1	40.8	274	269.0	52.3	334	327.9	63.7
35	34.4	6.7	95	93.3	18.1	155	152.2	29.6	215	211.0	41.0	275	269.9	52.5	335	328.8	63.9
36	35.3	6.9	96	94.2	18.3	156	153.1	29.8	216	212.0	41.2	276	270.9	52.7	336	329.8	64.1
37	36.3	7.1	97	95.2	18.5	157	154.1	30.0	217	213.0	41.4	277	271.9	52.9	337	330.8	64.3
38	37.3	7.3	98	96.2	18.7	158	155.1	30.1	218	214.0	41.6	278	272.9	53.0	338	331.8	64.5
39	38.3	7.4	99	97.2	18.9	159	156.1	30.3	219	215.0	41.8	279	273.9	53.2	339	332.8	64.7
40	39.3	7.6	100	98.2	19.1	160	157.1	30.5	220	216.0	42.0	280	274.9	53.4	340	333.8	64.9
41	40.2	7.8	101	99.1	19.3	161	158.0	30.7	221	216.9	42.2	281	275.8	53.6	341	334.7	65.1
42	41.2	8.0	102	100.1	19.5	162	159.0	30.9	222	217.9	42.4	282	276.8	53.8	342	335.7	65.3
43	42.2	8.2	103	101.1	19.7	163	160.0	31.1	223	218.9	42.6	283	277.8	54.0	343	336.7	65.4
44	43.2	8.4	104	102.1	19.8	164	161.0	31.3	224	219.9	42.7	284	278.8	54.2	344	337.7	65.6
45	44.2	8.6	105	103.1	20.0	165	162.0	31.5	225	220.9	42.9	285	279.8	54.4	345	338.7	65.8
46	45.2	8.8	106	104.1	20.2	166	163.0	31.7	226	221.8	43.1	286	280.7	54.6	346	339.6	66.0
47	46.1	9.0	107	105.0	20.4	167	163.9	31.9	227	222.8	43.3	287	281.7	54.8	347	340.6	66.2
48	47.1	9.2	108	106.0	20.6	168	164.9	32.1	228	223.8	43.5	288	282.7	55.0	348	341.6	66.4
49	48.1	9.3	109	107.0	20.8	169	165.9	32.2	229	224.8	43.7	289	283.7	55.1	349	342.6	66.6
50	49.1	9.5	110	108.0	21.0	170	166.9	32.4	230	225.8	43.9	290	284.7	55.3	350	343.6	66.8
51	50.1	9.7	111	109.0	21.2	171	167.9	32.6	231	226.8	44.1	291	285.7	55.5	351	344.6	67.0
52	51.0	9.9	112	109.9	21.4	172	168.8	32.8	232	227.7	44.3	292	286.6	55.7	352	345.5	67.2
53	52.0	10.1	113	110.9	21.6	173	169.8	33.0	233	228.7	44.5	293	287.6	55.9	353	346.5	67.4
54	53.0	10.3	114	111.9	21.8	174	170.8	33.2	234	229.7	44.6	294	288.6	56.1	354	347.5	67.5
55	54.0	10.5	115	112.9	21.9	175	171.8	33.4	235	230.7	44.8	295	289.6	56.3	355	348.5	67.7
56	55.0	10.7	116	113.9	22.1	176	172.8	33.6	236	231.7	45.0	296	290.6	56.5	356	349.5	67.9
57	56.0	10.9	117	114.9	22.3	177	173.7	33.8	237	232.6	45.2	297	291.5	56.7	357	350.4	68.1
58	56.9	11.1	118	115.8	22.5	178	174.7	34.0	238	233.6	45.4	298	292.5	56.9	358	351.4	68.3
59	57.9	11.3	119	116.8	22.7	179	175.7	34.2	239	234.6	45.6	299	293.5	57.1	359	352.4	68.5
60	58.9	11.4	120	117.8	22.9	180	176.7	34.3	240	235.6	45.8	300	294.5	57.2	360	353.4	68.7
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	354.4	68.9	421	413.3	80.3	481	472.2	91.8	541	531.1	103.2	601	590.0	114.7	661	648.9	126.1
362	355.3	69.1	422	414.2	80.5	482	473.1	92.0	542	532.0	103.4	602	590.9	114.9	662	649.8	126.3
363	356.3	69.3	423	415.2	80.7	483	474.1	92.2	543	533.0	103.6	603	591.9	115.1	663	650.8	126.5
364	357.3	69.5	424	416.2	80.9	484	475.1	92.4	544	534.0	103.8	604	592.9	115.2	664	651.8	126.7
365	358.3	69.6	425	417.2	81.1	485	476.1	92.5	545	535.0	104.0	605	593.9	115.4	665	652.8	126.9
366	359.3	69.8	426	418.2	81.3	486	477.1	92.7	546	536.0	104.2	606	594.9	115.6	666	653.8	127.1
367	360.3	70.0	427	419.2	81.5	487	478.1	92.9	547	536.9	104.4	607	595.8	115.8	667	654.7	127.3
368	361.2	70.2	428	420.1	81.7	488	479.0	93.1	548	537.9	104.6	608	596.8	116.0	668	655.7	127.5
369	362.2	70.4	429	421.1	81.9	489	480.0	93.3	549	538.9	104.8	609	597.8	116.2	669	656.7	127.7
370	363.2	70.6	430	422.1	82.0	490	481.0	93.5	550	539.9	104.9	610	598.8	116.4	670	657.7	127.8
371	364.2	70.8	431	423.1	82.2	491	482.0	93.7	551	540.9	105.1	611	599.8	116.6	671	658.7	128.0
372	365.2	71.0	432	424.1	82.4	492	483.0	93.9	552	541.9	105.3	612	600.8	116.8	672	659.7	128.2
373	366.1	71.2	433	425.0	82.6	493	483.9	94.1	553	542.8	105.5	613	601.7	117.0	673	660.6	128.4
374	367.1	71.4	434	426.0	82.8	494	484.9	94.3	554	543.8	105.7	614	602.7	117.2	674	661.6	128.6
375	368.1	71.6	435	427.0	83.0	495	485.9	94.5	555	544.8	105.9	615	603.7	117.3	675	662.6	128.8
376	369.1	71.7	436	428.0	83.2	496	486.9	94.6	556	545.8	106.1	616	604.7	117.5	676	663.6	129.0
377	370.1	71.9	437	429.0	83.4	497	487.9	94.8	557	546.8	106.3	617	605.7	117.7	677	664.6	129.2
378	371.1	72.1	438	430.0	83.6	498	488.9	95.0	558	547.7	106.5	618	606.6	117.9	678	665.5	129.4
379	372.0	72.3	439	430.9	83.8	499	489.8	95.2	559	548.7	106.7	619	607.6	118.1	679	666.5	129.6
380	373.0	72.5	440	431.9	84.0	500	490.8	95.4	560	549.7	106.9	620	608.6	118.3	680	667.5	129.8
381	374.0	72.7	441	432.9	84.1	501	491.8	95.6	561	550.7	107.0	621	609.6	118.5	681	668.5	129.9
382	375.0	72.9	442	433.9	84.3	502	492.8	95.8	562	551.7	107.2	622	610.6	118.7	682	669.5	130.1
383	376.0	73.1	443	434.9	84.5	503	493.8	96.0	563	552.7	107.4	623	611.6	118.9	683	670.5	130.3
384	376.9	73.3	444	435.8	84.7	504	494.7	96.2	564	553.6	107.6	624	612.5	119.1	684	671.4	130.5
385	377.9	73.5	445	436.8	84.9	505	495.7	96.4	565	554.6	107.8	625	613.5	119.3	685	672.4	130.7
386	378.9	73.7	446	437.8	85.1	506	496.7	96.5	566	555.6	108.0	626	614.5	119.4	686	673.4	130.9
387	379.9	73.8	447	438.8	85.3	507	497.7	96.7	567	556.6	108.2	627	615.5	119.6	687	674.4	131.1
388	380.9	74.0	448	439.8	85.5	508	498.7	96.9	568	557.6	108.4	628	616.5	119.8	688	675.4	131.3
389	381.9	74.2	449	440.8	85.7	509	499.6	97.1	569	558.5	108.6	629	617.4	120.0	689	676.3	131.5
390	382.8	74.4	450	441.7	85.9	510	500.6	97.3	570	559.5	108.8	630	618.4	120.2	690	677.3	131.7
391	383.8	74.6	451	442.7	86.1	511	501.6	97.5	571	560.5	109.0	631	619.4	120.4	691	678.3	131.8
392	384.8	74.8	452	443.7	86.2	512	502.6	97.7	572	561.5	109.1	632	620.4	120.6	692	679.3	132.0
393	385.8	75.0	453	444.7	86.4	513	503.6	97.9	573	562.5	109.3	633	621.4	120.8	693	680.3	132.2
394	386.8	75.2	454	445.7	86.6	514	504.6	98.1	574	563.5	109.5	634	622.4	121.0	694	681.2	132.4
395	387.7	75.4	455	446.6	86.8	515	505.5	98.3	575	564.4	109.7	635	623.3	121.2	695	682.2	132.6
396	388.7	75.6	456	447.6	87.0	516	506.5	98.5	576	565.4	109.9	636	624.3	121.4	696	683.2	132.8
397	389.7	75.8	457	448.6	87.2	517	507.5	98.6	577	566.4	110.1	637	625.3	121.5	697	684.2	133.0
398	390.7	75.9	458	449.6	87.4	518	508.5	98.8	578	567.4	110.3	638	626.3	121.7	698	685.2	133.2
399	391.7	76.1	459	450.6	87.6	519	509.5	99.0	579	568.4	110.5	639	627.3	121.9	699	686.2	133.4
400	392.7	76.3	460	451.5	87.8	520	510.4	99.2	580	569.3	110.7	640	628.2	122.1	700	687.1	133.6
401	393.6	76.5	461	452.5	88.0	521	511.4	99.4	581	570.3	110.9	641	629.2	122.3	701	688.1	133.8
402	394.6	76.7	462	453.5	88.2	522	512.4	99.6	582	571.3	111.1	642	630.2	122.5	702	689.1	133.9
403	395.6	76.9	463	454.5	88.3	523	513.4	99.8	583	572.3	111.2	643	631.2	122.7	703	690.1	134.1
404	396.6	77.1	464	455.5	88.5	524	514.4	100.0	584	573.3	111.4	644	632.2	122.9	704	691.1	134.3
405	397.6	77.3	465	456.5	88.7	525	515.4	100.2	585	574.3	111.6	645	633.1	123.1	705	692.0	134.5
406	398.5	77.5	466	457.4	88.9	526	516.3	100.4	586	575.2	111.8	646	634.1	123.3	706	693.0	134.7
407	399.5	77.7	467	458.4	89.1	527	517.3	100.6	587	576.2	112.0	647	635.1	123.5	707	694.0	134.9
408	400.5	77.9	468	459.4	89.3	528	518.3	100.7	588	577.2	112.2	648	636.1	123.6	708	695.0	135.1
409	401.5	78.0	469	460.4	89.5	529	519.3	100.9	589	578.2	112.4	649	637.1	123.8	709	696.0	135.3
410	402.5	78.2	470	461.4	89.7	530	520.3	101.1	590	579.2	112.6	650	638.1	124.0	710	697.0	135.5
411	403.4	78.4	471	462.3	89.9	531	521.2	101.3	591	580.1	112.8	651	639.0	124.2	711	697.9	135.7
412	404.4	78.6	472	463.3	90.1	532	522.2	101.5	592	581.1	113.0	652	640.0	124.4	712	698.9	135.9
413	405.4	78.8	473	464.3	90.3	533	523.2	101.7	593	582.1	113.1	653	641.0	124.6	713	699.9	136.0
414	406.4	79.0	474	465.3	90.4	534	524.2	101.9	594	583.1	113.3	654	642.0	124.8	714	700.9	136.2
415	407.4	79.2	475	466.3	90.6	535	525.2	102.1	595	584.1	113.5	655	643.0	125.0	715	701.9	136.4
416	408.4	79.4	476	467.3	90.8	536	526.2	102.3	596	585.0	113.7	656	643.9	125.2	716	702.8	136.6
417	409.3	79.6	477	468.2	91.0	537	527.1	102.5	597	586.0	113.9	657	644.9	125.4	717	703.8	136.8
418	410.3	79.8	478	469.2	91.2	538	528.1	102.7	598	587.0	114.1	658	645.9	125.6	718	704.8	137.0
419	411.3	79.9	479	470.2	91.4	539	529.1	102.8	599	588.0	114.3	659	646.9	125.7	719	705.8	137.2
420	412.3	80.1	480	471.2	91.6	540	530.1	103.0	600	589.0	114.5	660	647.9	125.9	720	706.8	137.4

D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI
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D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	1.0	0.2	61	59.7	12.7	121	118.4	25.2	181	177.0	37.6	241	235.7	50.1	301	294.4	62.6
2	2.0	0.4	62	60.6	12.9	122	119.3	25.4	182	178.0	37.8	242	236.7	50.3	302	295.4	62.8
3	2.9	0.6	63	61.6	13.1	123	120.3	25.6	183	179.0	38.0	243	237.7	50.5	303	296.4	63.0
4	3.9	0.8	64	62.6	13.3	124	121.3	25.8	184	180.0	38.3	244	238.7	50.7	304	297.4	63.2
5	4.9	1.0	65	63.6	13.5	125	122.3	26.0	185	181.0	38.5	245	239.6	50.9	305	298.3	63.4
6	5.9	1.2	66	64.6	13.7	126	123.2	26.2	186	181.9	38.7	246	240.6	51.1	306	299.3	63.6
7	6.8	1.5	67	65.5	13.9	127	124.2	26.4	187	182.9	38.9	247	241.6	51.4	307	300.3	63.8
8	7.8	1.7	68	66.5	14.1	128	125.2	26.6	188	183.9	39.1	248	242.6	51.6	308	301.3	64.0
9	8.8	1.9	69	67.5	14.3	129	126.2	26.8	189	184.9	39.3	249	243.6	51.8	309	302.2	64.2
10	9.8	2.1	70	68.5	14.6	130	127.2	27.0	190	185.8	39.5	250	244.5	52.0	310	303.2	64.5
11	10.8	2.3	71	69.4	14.8	131	128.1	27.2	191	186.8	39.7	251	245.5	52.2	311	304.2	64.7
12	11.7	2.5	72	70.4	15.0	132	129.1	27.4	192	187.8	39.9	252	246.5	52.4	312	305.2	64.9
13	12.7	2.7	73	71.4	15.2	133	130.1	27.7	193	188.8	40.1	253	247.5	52.6	313	306.2	65.1
14	13.7	2.9	74	72.4	15.4	134	131.1	27.9	194	189.8	40.3	254	248.4	52.8	314	307.1	65.3
15	14.7	3.1	75	73.4	15.6	135	132.0	28.1	195	190.7	40.5	255	249.4	53.0	315	308.1	65.5
16	15.7	3.3	76	74.3	15.8	136	133.0	28.3	196	191.7	40.8	256	250.4	53.2	316	309.1	65.7
17	16.6	3.5	77	75.3	16.0	137	134.0	28.5	197	192.7	41.0	257	251.4	53.4	317	310.1	65.9
18	17.6	3.7	78	76.3	16.2	138	135.0	28.7	198	193.7	41.2	258	252.4	53.6	318	311.1	66.1
19	18.6	4.0	79	77.3	16.4	139	136.0	28.9	199	194.7	41.4	259	253.3	53.8	319	312.0	66.3
20	19.6	4.2	80	78.3	16.6	140	136.9	29.1	200	195.6	41.6	260	254.3	54.1	320	313.0	66.5
21	20.5	4.4	81	79.2	16.8	141	137.9	29.3	201	196.6	41.8	261	255.3	54.3	321	314.0	66.7
22	21.5	4.6	82	80.2	17.0	142	138.9	29.5	202	197.6	42.0	262	256.3	54.5	322	315.0	66.9
23	22.5	4.8	83	81.2	17.3	143	139.9	29.7	203	198.6	42.2	263	257.3	54.7	323	315.9	67.2
24	23.5	5.0	84	82.2	17.5	144	140.9	29.9	204	199.5	42.4	264	258.2	54.9	324	316.9	67.4
25	24.5	5.2	85	83.1	17.7	145	141.8	30.1	205	200.5	42.6	265	259.2	55.1	325	317.9	67.6
26	25.4	5.4	86	84.1	17.9	146	142.8	30.4	206	201.5	42.8	266	260.2	55.3	326	318.9	67.8
27	26.4	5.6	87	85.1	18.1	147	143.8	30.6	207	202.5	43.0	267	261.2	55.5	327	319.9	68.0
28	27.4	5.8	88	86.1	18.3	148	144.8	30.8	208	203.5	43.2	268	262.1	55.7	328	320.8	68.2
29	28.4	6.0	89	87.1	18.5	149	145.7	31.0	209	204.4	43.5	269	263.1	55.9	329	321.8	68.4
30	29.3	6.2	90	88.0	18.7	150	146.7	31.2	210	205.4	43.7	270	264.1	56.1	330	322.8	68.6
31	30.3	6.4	91	89.0	18.9	151	147.7	31.4	211	206.4	43.9	271	265.1	56.3	331	323.8	68.8
32	31.3	6.7	92	90.0	19.1	152	148.7	31.6	212	207.4	44.1	272	266.1	56.6	332	324.7	69.0
33	32.3	6.9	93	91.0	19.3	153	149.7	31.8	213	208.3	44.3	273	267.0	56.8	333	325.7	69.2
34	33.3	7.1	94	91.9	19.5	154	150.6	32.0	214	209.3	44.5	274	268.0	57.0	334	326.7	69.4
35	34.2	7.3	95	92.9	19.8	155	151.6	32.2	215	210.3	44.7	275	269.0	57.2	335	327.7	69.7
36	35.2	7.5	96	93.9	20.0	156	152.6	32.4	216	211.3	44.9	276	270.0	57.4	336	328.7	69.9
37	36.2	7.7	97	94.9	20.2	157	153.6	32.6	217	212.3	45.1	277	270.9	57.6	337	329.6	70.1
38	37.2	7.9	98	95.9	20.4	158	154.5	32.9	218	213.2	45.3	278	271.9	57.8	338	330.6	70.3
39	38.1	8.1	99	96.8	20.6	159	155.5	33.1	219	214.2	45.5	279	272.9	58.0	339	331.6	70.5
40	39.1	8.3	100	97.8	20.8	160	156.5	33.3	220	215.2	45.7	280	273.9	58.2	340	332.6	70.7
41	40.1	8.5	101	98.8	21.0	161	157.5	33.5	221	216.2	45.9	281	274.9	58.4	341	333.5	70.9
42	41.1	8.7	102	99.8	21.2	162	158.5	33.7	222	217.1	46.2	282	275.8	58.6	342	334.5	71.1
43	42.1	8.9	103	100.7	21.4	163	159.4	33.9	223	218.1	46.4	283	276.8	58.8	343	335.5	71.3
44	43.0	9.1	104	101.7	21.6	164	160.4	34.1	224	219.1	46.6	284	277.8	59.0	344	336.5	71.5
45	44.0	9.4	105	102.7	21.8	165	161.4	34.3	225	220.1	46.8	285	278.8	59.3	345	337.5	71.7
46	45.0	9.6	106	103.7	22.0	166	162.4	34.5	226	221.1	47.0	286	279.8	59.5	346	338.4	71.9
47	46.0	9.8	107	104.7	22.2	167	163.4	34.7	227	222.0	47.2	287	280.7	59.7	347	339.4	72.1
48	47.0	10.0	108	105.6	22.5	168	164.3	34.9	228	223.0	47.4	288	281.7	59.9	348	340.4	72.4
49	47.9	10.2	109	106.6	22.7	169	165.3	35.1	229	224.0	47.6	289	282.7	60.1	349	341.4	72.6
50	48.9	10.4	110	107.6	22.9	170	166.3	35.3	230	225.0	47.8	290	283.7	60.3	350	342.4	72.8
51	49.9	10.6	111	108.6	23.1	171	167.3	35.6	231	226.0	48.0	291	284.6	60.5	351	343.3	73.0
52	50.9	10.8	112	109.6	23.3	172	168.2	35.8	232	226.9	48.2	292	285.6	60.7	352	344.3	73.2
53	51.8	11.0	113	110.5	23.5	173	169.2	36.0	233	227.9	48.4	293	286.6	60.9	353	345.3	73.4
54	52.8	11.2	114	111.5	23.7	174	170.2	36.2	234	228.9	48.7	294	287.6	61.1	354	346.3	73.6
55	53.8	11.4	115	112.5	23.9	175	171.2	36.4	235	229.9	48.9	295	288.6	61.3	355	347.2	73.8
56	54.8	11.6	116	113.5	24.1	176	172.2	36.6	236	230.8	49.1	296	289.5	61.5	356	348.2	74.0
57	55.8	11.9	117	114.4	24.3	177	173.1	36.8	237	231.8	49.3	297	290.5	61.7	357	349.2	74.2
58	56.7	12.1	118	115.4	24.5	178	174.1	37.0	238	232.8	49.5	298	291.5	62.0	358	350.2	74.4
59	57.7	12.3	119	116.4	24.7	179	175.1	37.2	239	233.8	49.7	299	292.5	62.2	359	351.2	74.6
60	58.7	12.5	120	117.4	24.9	180	176.1	37.4	240	234.8	49.9	300	293.4	62.4	360	352.1	74.8
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep
361	353.1	75.1	421	411.8	87.5	481	470.5	100.0	541	529.2	112.5	601	587.9	125.0	661	646.6	137.4
362	354.1	75.3	422	412.8	87.7	482	471.5	100.2	542	530.2	112.7	602	588.8	125.2	662	647.5	137.6
363	355.1	75.5	423	413.8	87.9	483	472.4	100.4	543	531.1	112.9	603	589.8	125.4	663	648.5	137.8
364	356.0	75.7	424	414.7	88.2	484	473.4	100.6	544	532.1	113.1	604	590.8	125.6	664	649.5	138.1
365	357.0	75.9	425	415.7	88.4	485	474.4	100.8	545	533.1	113.3	605	591.8	125.8	665	650.5	138.3
366	358.0	76.1	426	416.7	88.6	486	475.4	101.0	546	534.1	113.5	606	592.8	126.0	666	651.4	138.5
367	359.0	76.3	427	417.7	88.8	487	476.4	101.3	547	535.0	113.7	607	593.7	126.2	667	652.4	138.7
368	360.0	76.5	428	418.6	89.0	488	477.3	101.5	548	536.0	113.9	608	594.7	126.4	668	653.4	138.9
369	360.9	76.7	429	419.6	89.2	489	478.3	101.7	549	537.0	114.1	609	595.7	126.6	669	654.4	139.1
370	361.9	76.9	430	420.6	89.4	490	479.3	101.9	550	538.0	114.4	610	596.7	126.8	670	655.4	139.3
371	362.9	77.1	431	421.6	89.6	491	480.3	102.1	551	539.0	114.6	611	597.6	127.0	671	656.3	139.5
372	363.9	77.3	432	422.6	89.8	492	481.2	102.3	552	539.9	114.8	612	598.6	127.2	672	657.3	139.7
373	364.8	77.6	433	423.5	90.0	493	482.2	102.5	553	540.9	115.0	613	599.6	127.5	673	658.3	139.9
374	365.8	77.8	434	424.5	90.2	494	483.2	102.7	554	541.9	115.2	614	600.6	127.7	674	659.3	140.1
375	366.8	78.0	435	425.5	90.4	495	484.2	102.9	555	542.9	115.4	615	601.6	127.9	675	660.2	140.3
376	367.8	78.2	436	426.5	90.6	496	485.2	103.1	556	543.9	115.6	616	602.5	128.1	676	661.2	140.5
377	368.8	78.4	437	427.5	90.9	497	486.1	103.3	557	544.8	115.8	617	603.5	128.3	677	662.2	140.8
378	369.7	78.6	438	428.4	91.1	498	487.1	103.5	558	545.8	116.0	618	604.5	128.5	678	663.2	141.0
379	370.7	78.8	439	429.4	91.3	499	488.1	103.7	559	546.8	116.2	619	605.5	128.7	679	664.2	141.2
380	371.7	79.0	440	430.4	91.5	500	489.1	104.0	560	547.8	116.4	620	606.5	128.9	680	665.1	141.4
381	372.7	79.2	441	431.4	91.7	501	490.1	104.2	561	548.7	116.6	621	607.4	129.1	681	666.1	141.6
382	373.7	79.4	442	432.3	91.9	502	491.0	104.4	562	549.7	116.8	622	608.4	129.3	682	667.1	141.8
383	374.6	79.6	443	433.3	92.1	503	492.0	104.6	563	550.7	117.1	623	609.4	129.5	683	668.1	142.0
384	375.6	79.8	444	434.3	92.3	504	493.0	104.8	564	551.7	117.3	624	610.4	129.7	684	669.1	142.2
385	376.6	80.0	445	435.3	92.5	505	494.0	105.0	565	552.7	117.5	625	611.3	129.9	685	670.0	142.4
386	377.6	80.3	446	436.3	92.7	506	494.9	105.2	566	553.6	117.7	626	612.3	130.2	686	671.0	142.6
387	378.5	80.5	447	437.2	92.9	507	495.9	105.4	567	554.6	117.9	627	613.3	130.4	687	672.0	142.8
388	379.5	80.7	448	438.2	93.1	508	496.9	105.6	568	555.6	118.1	628	614.3	130.6	688	673.0	143.0
389	380.5	80.9	449	439.2	93.4	509	497.9	105.8	569	556.6	118.3	629	615.3	130.8	689	673.9	143.3
390	381.5	81.1	450	440.2	93.6	510	498.9	106.0	570	557.5	118.5	630	616.2	131.0	690	674.9	143.5
391	382.5	81.3	451	441.1	93.8	511	499.8	106.2	571	558.5	118.7	631	617.2	131.2	691	675.9	143.7
392	383.4	81.5	452	442.1	94.0	512	500.8	106.5	572	559.5	118.9	632	618.2	131.4	692	676.9	143.9
393	384.4	81.7	453	443.1	94.2	513	501.8	106.7	573	560.5	119.1	633	619.2	131.6	693	677.9	144.1
394	385.4	81.9	454	444.1	94.4	514	502.8	106.9	574	561.5	119.3	634	620.1	131.8	694	678.8	144.3
395	386.4	82.1	455	445.1	94.6	515	503.7	107.1	575	562.4	119.5	635	621.1	132.0	695	679.8	144.5
396	387.3	82.3	456	446.0	94.8	516	504.7	107.3	576	563.4	119.8	636	622.1	132.2	696	680.8	144.7
397	388.3	82.5	457	447.0	95.0	517	505.7	107.5	577	564.4	120.0	637	623.1	132.4	697	681.8	144.9
398	389.3	82.7	458	448.0	95.2	518	506.7	107.7	578	565.4	120.2	638	624.1	132.6	698	682.7	145.1
399	390.3	83.0	459	449.0	95.4	519	507.7	107.9	579	566.3	120.4	639	625.0	132.9	699	683.7	145.3
400	391.3	83.2	460	449.9	95.6	520	508.6	108.1	580	567.3	120.6	640	626.0	133.1	700	684.7	145.5
401	392.2	83.4	461	450.9	95.8	521	509.6	108.3	581	568.3	120.8	641	627.0	133.3	701	685.7	145.7
402	393.2	83.6	462	451.9	96.1	522	510.6	108.5	582	569.3	121.0	642	628.0	133.5	702	686.7	146.0
403	394.2	83.8	463	452.9	96.3	523	511.6	108.7	583	570.3	121.2	643	628.9	133.7	703	687.6	146.2
404	395.2	84.0	464	453.9	96.5	524	512.5	108.9	584	571.2	121.4	644	629.9	133.9	704	688.6	146.4
405	396.1	84.2	465	454.8	96.7	525	513.5	109.2	585	572.2	121.6	645	630.9	134.1	705	689.6	146.6
406	397.1	84.4	466	455.8	96.9	526	514.5	109.4	586	573.2	121.8	646	631.9	134.3	706	690.6	146.8
407	398.1	84.6	467	456.8	97.1	527	515.5	109.6	587	574.2	122.0	647	632.9	134.5	707	691.6	147.0
408	399.1	84.8	468	457.8	97.3	528	516.5	109.8	588	575.2	122.3	648	633.8	134.7	708	692.5	147.2
409	400.1	85.0	469	458.8	97.5	529	517.4	110.0	589	576.1	122.5	649	634.8	134.9	709	693.5	147.4
410	401.0	85.2	470	459.7	97.7	530	518.4	110.2	590	577.1	122.7	650	635.8	135.1	710	694.5	147.6
411	402.0	85.5	471	460.7	97.9	531	519.4	110.4	591	578.1	122.9	651	636.8	135.4	711	695.5	147.8
412	403.0	85.7	472	461.7	98.1	532	520.4	110.6	592	579.1	123.1	652	637.8	135.6	712	696.4	148.0
413	404.0	85.9	473	462.7	98.3	533	521.4	110.8	593	580.0	123.3	653	638.7	135.8	713	697.4	148.2
414	405.0	86.1	474	463.6	98.6	534	522.3	111.0	594	581.0	123.5	654	639.7	136.0	714	698.4	148.4
415	405.9	86.3	475	464.6	98.8	535	523.3	111.2	595	582.0	123.7	655	640.7	136.2	715	699.4	148.7
416	406.9	86.5	476	465.6	99.0	536	524.3	111.4	596	583.0	123.9	656	641.7	136.4	716	700.4	148.9
417	407.9	86.7	477	466.6	99.2	537	525.3	111.6	597	584.0	124.1	657	642.6	136.6	717	701.3	149.1
418	408.9	86.9	478	467.6	99.4	538	526.2	111.9	598	584.9	124.3	658	643.6	136.8	718	702.3	149.3
419	409.8	87.1	479	468.5	99.6	539	527.2	112.1	599	585.9	124.5	659	644.6	137.0	719	703.3	149.5
420	410.8	87.3	480	469.5	99.8	540	528.2	112.3	600	586.9	124.7	660	645.6	137.2	720	704.3	149.7

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	1-0	0-2	61	59-4	13-7	121	117-9	27-2	181	176-4	40-7	241	234-8	54-2	301	293-3	67-7
2	1-9	0-4	62	60-4	13-9	122	118-9	27-4	182	177-3	40-9	242	235-8	54-4	302	294-3	67-9
3	2-9	0-7	63	61-4	14-2	123	119-8	27-7	183	178-3	41-2	243	236-8	54-7	303	295-2	68-2
4	3-9	0-9	64	62-4	14-4	124	120-8	27-9	184	179-3	41-4	244	237-7	54-9	304	296-2	68-4
5	4-9	1-1	65	63-3	14-6	125	121-8	28-1	185	180-3	41-6	245	238-7	55-1	305	297-2	68-6
6	5-8	1-3	66	64-3	14-8	126	122-8	28-3	186	181-2	41-8	246	239-7	55-3	306	298-2	68-8
7	6-8	1-6	67	65-3	15-1	127	123-7	28-6	187	182-2	42-1	247	240-7	55-6	307	299-1	69-1
8	7-8	1-8	68	66-3	15-3	128	124-7	28-8	188	183-2	42-3	248	241-6	55-8	308	300-1	69-3
9	8-8	2-0	69	67-2	15-5	129	125-7	29-0	189	184-2	42-5	249	242-6	56-0	309	301-1	69-5
10	9-7	2-2	70	68-2	15-7	130	126-7	29-2	190	185-1	42-7	250	243-6	56-2	310	302-1	69-7
11	10-7	2-5	71	69-2	16-0	131	127-6	29-5	191	186-1	43-0	251	244-6	56-5	311	303-0	70-0
12	11-7	2-7	72	70-2	16-2	132	128-6	29-7	192	187-1	43-2	252	245-5	56-7	312	304-0	70-2
13	12-7	2-9	73	71-1	16-4	133	129-6	29-9	193	188-1	43-4	253	246-5	56-9	313	305-0	70-4
14	13-6	3-1	74	72-1	16-6	134	130-6	30-1	194	189-0	43-6	254	247-5	57-1	314	306-0	70-6
15	14-6	3-4	75	73-1	16-9	135	131-5	30-4	195	190-0	43-9	255	248-5	57-4	315	306-9	70-9
16	15-6	3-6	76	74-1	17-1	136	132-5	30-6	196	191-0	44-1	256	249-4	57-6	316	307-9	71-1
17	16-6	3-8	77	75-0	17-3	137	133-5	30-8	197	192-0	44-3	257	250-4	57-8	317	308-9	71-3
18	17-5	4-0	78	76-0	17-5	138	134-5	31-0	198	192-9	44-5	258	251-4	58-0	318	309-8	71-5
19	18-5	4-3	79	77-0	17-8	139	135-4	31-3	199	193-9	44-8	259	252-4	58-3	319	310-8	71-8
20	19-5	4-5	80	77-9	18-0	140	136-4	31-5	200	194-9	45-0	260	253-3	58-5	320	311-8	72-0
21	20-5	4-7	81	78-9	18-2	141	137-4	31-7	201	195-8	45-2	261	254-3	58-7	321	312-8	72-2
22	21-4	4-9	82	79-9	18-4	142	138-4	31-9	202	196-8	45-4	262	255-3	58-9	322	313-7	72-4
23	22-4	5-2	83	80-9	18-7	143	139-3	32-2	203	197-8	45-7	263	256-3	59-2	323	314-7	72-7
24	23-4	5-4	84	81-8	18-9	144	140-3	32-4	204	198-8	45-9	264	257-2	59-4	324	315-7	72-9
25	24-4	5-6	85	82-8	19-1	145	141-3	32-6	205	199-7	46-1	265	258-2	59-6	325	316-7	73-1
26	25-3	5-8	86	83-8	19-3	146	142-3	32-8	206	200-7	46-3	266	259-2	59-8	326	317-6	73-3
27	26-3	6-1	87	84-8	19-6	147	143-2	33-1	207	201-7	46-6	267	260-2	60-1	327	318-6	73-6
28	27-3	6-3	88	85-7	19-8	148	144-2	33-3	208	202-7	46-8	268	261-1	60-3	328	319-6	73-8
29	28-3	6-5	89	86-7	20-0	149	145-2	33-5	209	203-6	47-0	269	262-1	60-5	329	320-6	74-0
30	29-2	6-7	90	87-7	20-2	150	146-2	33-7	210	204-6	47-2	270	263-1	60-7	330	321-5	74-2
31	30-2	7-0	91	88-7	20-5	151	147-1	34-0	211	205-6	47-5	271	264-1	61-0	331	322-5	74-5
32	31-2	7-2	92	89-6	20-7	152	148-1	34-2	212	206-6	47-7	272	265-0	61-2	332	323-5	74-7
33	32-2	7-4	93	90-6	20-9	153	149-1	34-4	213	207-5	47-9	273	266-0	61-4	333	324-5	74-9
34	33-1	7-6	94	91-6	21-1	154	150-1	34-6	214	208-5	48-1	274	267-0	61-6	334	325-4	75-1
35	34-1	7-9	95	92-6	21-4	155	151-0	34-9	215	209-5	48-4	275	268-0	61-9	335	326-4	75-4
36	35-1	8-1	96	93-5	21-6	156	152-0	35-1	216	210-5	48-6	276	268-9	62-1	336	327-4	75-6
37	36-1	8-3	97	94-5	21-8	157	153-0	35-3	217	211-4	48-8	277	269-9	62-3	337	328-4	75-8
38	37-0	8-5	98	95-5	22-0	158	154-0	35-5	218	212-4	49-0	278	270-9	62-5	338	329-3	76-0
39	38-0	8-8	99	96-5	22-3	159	154-9	35-8	219	213-4	49-3	279	271-8	62-8	339	330-3	76-3
40	39-0	9-0	100	97-4	22-5	160	155-9	36-0	220	214-4	49-5	280	272-8	63-0	340	331-3	76-5
41	39-9	9-2	101	98-4	22-7	161	156-9	36-2	221	215-3	49-7	281	273-8	63-2	341	332-3	76-7
42	40-9	9-4	102	99-4	22-9	162	157-8	36-4	222	216-3	49-9	282	274-8	63-4	342	333-2	76-9
43	41-9	9-7	103	100-4	23-2	163	158-8	36-7	223	217-3	50-2	283	275-7	63-7	343	334-2	77-2
44	42-9	9-9	104	101-3	23-4	164	159-8	36-9	224	218-3	50-4	284	276-7	63-9	344	335-2	77-4
45	43-8	10-1	105	102-3	23-6	165	160-8	37-1	225	219-2	50-6	285	277-7	64-1	345	336-2	77-6
46	44-8	10-3	106	103-3	23-8	166	161-7	37-3	226	220-2	50-8	286	278-7	64-3	346	337-1	77-8
47	45-8	10-6	107	104-3	24-1	167	162-7	37-6	227	221-2	51-1	287	279-6	64-6	347	338-1	78-1
48	46-8	10-8	108	105-2	24-3	168	163-7	37-8	228	222-2	51-3	288	280-6	64-8	348	339-1	78-3
49	47-7	11-0	109	106-2	24-5	169	164-7	38-0	229	223-1	51-5	289	281-6	65-0	349	340-1	78-5
50	48-7	11-2	110	107-2	24-7	170	165-6	38-2	230	224-1	51-7	290	282-6	65-2	350	341-0	78-7
51	49-7	11-5	111	108-2	25-0	171	166-6	38-5	231	225-1	52-0	291	283-5	65-5	351	342-0	79-0
52	50-7	11-7	112	109-1	25-2	172	167-6	38-7	232	226-1	52-2	292	284-5	65-7	352	343-0	79-2
53	51-6	11-9	113	110-1	25-4	173	168-6	38-9	233	227-0	52-4	293	285-5	65-9	353	344-0	79-4
54	52-6	12-1	114	111-1	25-6	174	169-5	39-1	234	228-0	52-6	294	286-5	66-1	354	344-9	79-6
55	53-6	12-4	115	112-1	25-9	175	170-5	39-4	235	229-0	52-9	295	287-4	66-4	355	345-9	79-9
56	54-6	12-6	116	113-0	26-1	176	171-5	39-6	236	230-0	53-1	296	288-4	66-6	356	346-9	80-1
57	55-5	12-8	117	114-0	26-3	177	172-5	39-8	237	230-9	53-3	297	289-4	66-8	357	347-9	80-3
58	56-5	13-0	118	115-0	26-5	178	173-4	40-0	238	231-9	53-5	298	290-4	67-0	358	348-8	80-5
59	57-5	13-3	119	116-0	26-8	179	174-4	40-3	239	232-9	53-8	299	291-3	67-3	359	349-8	80-8
60	58-5	13-5	120	116-9	27-0	180	175-4	40-5	240	233-8	54-0	300	292-3	67-5	360	350-8	81-0

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	351.7	81.2	421	410.2	94.7	481	468.7	108.2	541	527.1	121.7	601	585.6	135.2	661	644.1	148.7
362	352.7	81.4	422	411.2	94.9	482	469.6	108.4	542	528.1	121.9	602	586.6	135.4	662	645.0	148.9
363	353.7	81.7	423	412.2	95.2	483	470.6	108.7	543	529.1	122.1	603	587.5	135.6	663	646.0	149.1
364	354.7	81.9	424	413.1	95.4	484	471.6	108.9	544	530.1	122.4	604	588.5	135.9	664	647.0	149.4
365	355.6	82.1	425	414.1	95.6	485	472.6	109.1	545	531.0	122.6	605	589.5	136.1	665	648.0	149.6
366	356.6	82.3	426	415.1	95.8	486	473.5	109.3	546	532.0	122.8	606	590.5	136.3	666	648.9	149.8
367	357.6	82.6	427	416.1	96.1	487	474.5	109.6	547	533.0	123.0	607	591.4	136.5	667	649.9	150.0
368	358.6	82.8	428	417.0	96.3	488	475.5	109.8	548	534.0	123.3	608	592.4	136.8	668	650.9	150.3
369	359.5	83.0	429	418.0	96.5	489	476.5	110.0	549	534.9	123.5	609	593.4	137.0	669	651.9	150.5
370	360.5	83.2	430	419.0	96.7	490	477.4	110.2	550	535.9	123.7	610	594.4	137.2	670	652.8	150.7
371	361.5	83.5	431	420.0	97.0	491	478.4	110.5	551	536.9	123.9	611	595.3	137.4	671	653.8	150.9
372	362.5	83.7	432	420.9	97.2	492	479.4	110.7	552	537.9	124.2	612	596.3	137.7	672	654.8	151.2
373	363.4	83.9	433	421.9	97.4	493	480.4	110.9	553	538.8	124.4	613	597.3	137.9	673	655.8	151.4
374	364.4	84.1	434	422.9	97.6	494	481.3	111.1	554	539.8	124.6	614	598.3	138.1	674	656.7	151.6
375	365.4	84.4	435	423.9	97.9	495	482.3	111.4	555	540.8	124.8	615	599.2	138.3	675	657.7	151.8
376	366.4	84.6	436	424.8	98.1	496	483.3	111.6	556	541.7	125.1	616	600.2	138.6	676	658.7	152.1
377	367.3	84.8	437	425.8	98.3	497	484.3	111.8	557	542.7	125.3	617	601.2	138.8	677	659.6	152.3
378	368.3	85.0	438	426.8	98.5	498	485.2	112.0	558	543.7	125.5	618	602.2	139.0	678	660.6	152.5
379	369.3	85.3	439	427.7	98.8	499	486.2	112.3	559	544.7	125.7	619	603.1	139.2	679	661.6	152.7
380	370.3	85.5	440	428.7	99.0	500	487.2	112.5	560	545.6	126.0	620	604.1	139.5	680	662.6	153.0
381	371.2	85.7	441	429.7	99.2	501	488.2	112.7	561	546.6	126.2	621	605.1	139.7	681	663.5	153.2
382	372.2	85.9	442	430.7	99.4	502	489.1	112.9	562	547.6	126.4	622	606.1	139.9	682	664.5	153.4
383	373.2	86.2	443	431.6	99.7	503	490.1	113.2	563	548.6	126.6	623	607.0	140.1	683	665.5	153.6
384	374.2	86.4	444	432.6	99.9	504	491.1	113.4	564	549.5	126.9	624	608.0	140.4	684	666.5	153.9
385	375.1	86.6	445	433.6	100.1	505	492.1	113.6	565	550.5	127.1	625	609.0	140.6	685	667.4	154.1
386	376.1	86.8	446	434.6	100.3	506	493.0	113.8	566	551.5	127.3	626	610.0	140.8	686	668.4	154.3
387	377.1	87.1	447	435.5	100.6	507	494.0	114.1	567	552.5	127.5	627	610.9	141.0	687	669.4	154.5
388	378.1	87.3	448	436.5	100.8	508	495.0	114.3	568	553.4	127.8	628	611.9	141.3	688	670.4	154.8
389	379.0	87.5	449	437.5	101.0	509	496.0	114.5	569	554.4	128.0	629	612.9	141.5	689	671.3	155.0
390	380.0	87.7	450	438.5	101.2	510	496.9	114.7	570	555.4	128.2	630	613.9	141.7	690	672.3	155.2
391	381.0	88.0	451	439.4	101.5	511	497.9	115.0	571	556.4	128.4	631	614.8	141.9	691	673.3	155.4
392	382.0	88.2	452	440.4	101.7	512	498.9	115.2	572	557.3	128.7	632	615.8	142.2	692	674.3	155.7
393	382.9	88.4	453	441.4	101.9	513	499.9	115.4	573	558.3	128.9	633	616.8	142.4	693	675.2	155.9
394	383.9	88.6	454	442.4	102.1	514	500.8	115.6	574	559.3	129.1	634	617.8	142.6	694	676.2	156.1
395	384.9	88.9	455	443.3	102.4	515	501.8	115.8	575	560.3	129.3	635	618.7	142.8	695	677.2	156.3
396	385.9	89.1	456	444.3	102.6	516	502.8	116.1	576	561.2	129.6	636	619.7	143.1	696	678.2	156.6
397	386.8	89.3	457	445.3	102.8	517	503.7	116.3	577	562.2	129.8	637	620.7	143.3	697	679.1	156.8
398	387.8	89.5	458	446.3	103.0	518	504.7	116.5	578	563.2	130.0	638	621.6	143.5	698	680.1	157.0
399	388.8	89.8	459	447.2	103.3	519	505.7	116.7	579	564.2	130.2	639	622.6	143.7	699	681.1	157.2
400	389.7	90.0	460	448.2	103.5	520	506.7	117.0	580	565.1	130.5	640	623.6	144.0	700	682.1	157.5
401	390.7	90.2	461	449.2	103.7	521	507.6	117.2	581	566.1	130.7	641	624.6	144.2	701	683.0	157.7
402	391.7	90.4	462	450.2	103.9	522	508.6	117.4	582	567.1	130.9	642	625.5	144.4	702	684.0	157.9
403	392.7	90.7	463	451.1	104.2	523	509.6	117.6	583	568.1	131.1	643	626.5	144.6	703	685.0	158.1
404	393.6	90.9	464	452.1	104.4	524	510.6	117.9	584	569.0	131.4	644	627.5	144.9	704	686.0	158.4
405	394.6	91.1	465	453.1	104.6	525	511.5	118.1	585	570.0	131.6	645	628.5	145.1	705	686.9	158.6
406	395.6	91.3	466	454.1	104.8	526	512.5	118.3	586	571.0	131.8	646	629.4	145.3	706	687.9	158.8
407	396.6	91.6	467	455.0	105.1	527	513.5	118.5	587	572.0	132.0	647	630.4	145.5	707	688.9	159.0
408	397.5	91.8	468	456.0	105.3	528	514.5	118.8	588	572.9	132.3	648	631.4	145.8	708	689.9	159.3
409	398.5	92.0	469	457.0	105.5	529	515.4	119.0	589	573.9	132.5	649	632.4	146.0	709	690.8	159.5
410	399.5	92.2	470	458.0	105.7	530	516.4	119.2	590	574.9	132.7	650	633.3	146.2	710	691.8	159.7
411	400.5	92.5	471	458.9	106.0	531	517.4	119.4	591	575.9	132.9	651	634.3	146.4	711	692.8	159.9
412	401.4	92.7	472	459.9	106.2	532	518.4	119.7	592	576.8	133.2	652	635.3	146.7	712	693.8	160.2
413	402.4	92.9	473	460.9	106.4	533	519.3	119.9	593	577.8	133.4	653	636.3	146.9	713	694.7	160.4
414	403.4	93.1	474	461.9	106.6	534	520.3	120.1	594	578.8	133.6	654	637.2	147.1	714	695.7	160.6
415	404.4	93.4	475	462.8	106.9	535	521.3	120.3	595	579.8	133.8	655	638.2	147.3	715	696.7	160.8
416	405.3	93.6	476	463.8	107.1	536	522.3	120.6	596	580.7	134.1	656	639.2	147.6	716	697.6	161.1
417	406.3	93.8	477	464.8	107.3	537	523.2	120.8	597	581.7	134.3	657	640.2	147.8	717	698.6	161.3
418	407.3	94.0	478	465.7	107.5	538	524.2	121.0	598	582.7	134.5	658	641.1	148.0	718	699.6	161.5
419	408.3	94.3	479	466.7	107.8	539	525.2	121.2	599	583.6	134.7	659	642.1	148.2	719	700.6	161.7
420	409.2	94.5	480	467.7	108.0	540	526.2	121.5	600	584.6	135.0	660	643.1	148.5	720	701.5	162.0

D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI
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D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	1.0	0.2	61	59.2	14.8	121	117.4	29.3	181	175.6	43.8	241	233.8	58.3	301	292.1	72.8
2	1.9	0.5	62	60.2	15.0	122	118.4	29.5	182	176.6	44.0	242	234.8	58.5	302	293.0	73.1
3	2.9	0.7	63	61.1	15.2	123	119.3	29.8	183	177.6	44.3	243	235.8	58.8	303	294.0	73.3
4	3.9	1.0	64	62.1	15.5	124	120.3	30.0	184	178.5	44.5	244	236.8	59.0	304	295.0	73.5
5	4.9	1.2	65	63.1	15.7	125	121.3	30.2	185	179.5	44.8	245	237.7	59.3	305	295.9	73.8
6	5.8	1.5	66	64.0	16.0	126	122.3	30.5	186	180.5	45.0	246	238.7	59.5	306	296.9	74.0
7	6.8	1.7	67	65.0	16.2	127	123.2	30.7	187	181.4	45.2	247	239.7	59.8	307	297.9	74.3
8	7.8	1.9	68	66.0	16.5	128	124.2	31.0	188	182.4	45.5	248	240.6	60.0	308	298.9	74.5
9	8.7	2.2	69	67.0	16.7	129	125.2	31.2	189	183.4	45.7	249	241.6	60.2	309	299.8	74.8
10	9.7	2.4	70	67.9	16.9	130	126.1	31.4	190	184.4	46.0	250	242.6	60.5	310	300.8	75.0
11	10.7	2.7	71	68.9	17.2	131	127.1	31.7	191	185.3	46.2	251	243.5	60.7	311	301.8	75.2
12	11.6	2.9	72	69.9	17.4	132	128.1	31.9	192	186.3	46.4	252	244.5	61.0	312	302.7	75.5
13	12.6	3.1	73	70.8	17.7	133	129.0	32.2	193	187.3	46.7	253	245.5	61.2	313	303.7	75.7
14	13.6	3.4	74	71.8	17.9	134	130.0	32.4	194	188.2	46.9	254	246.5	61.4	314	304.7	76.0
15	14.6	3.6	75	72.8	18.1	135	131.0	32.7	195	189.2	47.2	255	247.4	61.7	315	305.6	76.2
16	15.5	3.9	76	73.7	18.4	136	132.0	32.9	196	190.2	47.4	256	248.4	61.9	316	306.6	76.4
17	16.5	4.1	77	74.7	18.6	137	132.9	33.1	197	191.1	47.7	257	249.4	62.2	317	307.6	76.7
18	17.5	4.4	78	75.7	18.9	138	133.9	33.4	198	192.1	47.9	258	250.3	62.4	318	308.6	76.9
19	18.4	4.6	79	76.7	19.1	139	134.9	33.6	199	193.1	48.1	259	251.3	62.7	319	309.5	77.2
20	19.4	4.8	80	77.6	19.4	140	135.8	33.9	200	194.1	48.4	260	252.3	62.9	320	310.5	77.4
21	20.4	5.1	81	78.6	19.6	141	136.8	34.1	201	195.0	48.6	261	253.2	63.1	321	311.5	77.7
22	21.3	5.3	82	79.6	19.8	142	137.8	34.4	202	196.0	48.9	262	254.2	63.4	322	312.4	77.9
23	22.3	5.6	83	80.5	20.1	143	138.8	34.6	203	197.0	49.1	263	255.2	63.6	323	313.4	78.1
24	23.3	5.8	84	81.5	20.3	144	139.7	34.8	204	197.9	49.4	264	256.2	63.9	324	314.4	78.4
25	24.3	6.0	85	82.5	20.6	145	140.7	35.1	205	198.9	49.6	265	257.1	64.1	325	315.3	78.6
26	25.2	6.3	86	83.4	20.8	146	141.7	35.3	206	199.9	49.8	266	258.1	64.4	326	316.3	78.9
27	26.2	6.5	87	84.4	21.0	147	142.6	35.6	207	200.9	50.1	267	259.1	64.6	327	317.3	79.1
28	27.2	6.8	88	85.4	21.3	148	143.6	35.8	208	201.8	50.3	268	260.0	64.8	328	318.3	79.4
29	28.1	7.0	89	86.4	21.5	149	144.6	36.0	209	202.8	50.6	269	261.0	65.1	329	319.2	79.6
30	29.1	7.3	90	87.3	21.8	150	145.5	36.3	210	203.8	50.8	270	262.0	65.3	330	320.2	79.8
31	30.1	7.5	91	88.3	22.0	151	146.5	36.5	211	204.7	51.0	271	263.0	65.6	331	321.2	80.1
32	31.0	7.7	92	89.3	22.3	152	147.5	36.8	212	205.7	51.3	272	263.9	65.8	332	322.1	80.3
33	32.0	8.0	93	90.2	22.5	153	148.5	37.0	213	206.7	51.5	273	264.9	66.0	333	323.1	80.6
34	33.0	8.2	94	91.2	22.7	154	149.4	37.3	214	207.6	51.8	274	265.9	66.3	334	324.1	80.8
35	34.0	8.5	95	92.2	23.0	155	150.4	37.5	215	208.6	52.0	275	266.8	66.5	335	325.0	81.0
36	34.9	8.7	96	93.1	23.2	156	151.4	37.7	216	209.6	52.3	276	267.8	66.8	336	326.0	81.3
37	35.9	9.0	97	94.1	23.5	157	152.3	38.0	217	210.6	52.5	277	268.8	67.0	337	327.0	81.5
38	36.9	9.2	98	95.1	23.7	158	153.3	38.2	218	211.5	52.7	278	269.7	67.3	338	328.0	81.8
39	37.8	9.4	99	96.1	24.0	159	154.3	38.5	219	212.5	53.0	279	270.7	67.5	339	328.9	82.0
40	38.8	9.7	100	97.0	24.2	160	155.2	38.7	220	213.5	53.2	280	271.7	67.7	340	329.9	82.3
41	39.8	9.9	101	98.0	24.4	161	156.2	38.9	221	214.4	53.5	281	272.7	68.0	341	330.9	82.5
42	40.8	10.2	102	99.0	24.7	162	157.2	39.2	222	215.4	53.7	282	273.6	68.2	342	331.8	82.7
43	41.7	10.4	103	99.9	24.9	163	158.2	39.4	223	216.4	53.9	283	274.6	68.5	343	332.8	83.0
44	42.7	10.6	104	100.9	25.2	164	159.1	39.7	224	217.3	54.2	284	275.6	68.7	344	333.8	83.2
45	43.7	10.9	105	101.9	25.4	165	160.1	39.9	225	218.3	54.4	285	276.5	68.9	345	334.8	83.5
46	44.6	11.1	106	102.9	25.6	166	161.1	40.2	226	219.3	54.7	286	277.5	69.2	346	335.7	83.7
47	45.6	11.4	107	103.8	25.9	167	162.0	40.4	227	220.3	54.9	287	278.5	69.4	347	336.7	83.9
48	46.6	11.6	108	104.8	26.1	168	163.0	40.6	228	221.2	55.2	288	279.4	69.7	348	337.7	84.2
49	47.5	11.9	109	105.8	26.4	169	164.0	40.9	229	222.2	55.4	289	280.4	69.9	349	338.6	84.4
50	48.5	12.1	110	106.7	26.6	170	165.0	41.1	230	223.2	55.6	290	281.4	70.2	350	339.6	84.7
51	49.5	12.3	111	107.7	26.9	171	165.9	41.4	231	224.1	55.9	291	282.4	70.4	351	340.6	84.9
52	50.5	12.6	112	108.7	27.1	172	166.9	41.6	232	225.1	56.1	292	283.3	70.6	352	341.5	85.2
53	51.4	12.8	113	109.6	27.3	173	167.9	41.9	233	226.1	56.4	293	284.3	70.9	353	342.5	85.4
54	52.4	13.1	114	110.6	27.6	174	168.8	42.1	234	227.0	56.6	294	285.3	71.1	354	343.5	85.6
55	53.4	13.3	115	111.6	27.8	175	169.8	42.3	235	228.0	56.9	295	286.2	71.4	355	344.5	85.9
56	54.3	13.5	116	112.6	28.1	176	170.8	42.6	236	229.0	57.1	296	287.2	71.6	356	345.4	86.1
57	55.3	13.8	117	113.5	28.3	177	171.7	42.8	237	230.0	57.3	297	288.2	71.9	357	346.4	86.4
58	56.3	14.0	118	114.5	28.5	178	172.7	43.1	238	230.9	57.6	298	289.1	72.1	358	347.4	86.6
59	57.2	14.3	119	115.5	28.8	179	173.7	43.3	239	231.9	57.8	299	290.1	72.3	359	348.3	86.8
60	58.2	14.5	120	116.4	29.0	180	174.7	43.5	240	232.9	58.1	300	291.1	72.6	360	349.3	87.1
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	350.3	87.3	421	408.5	101.8	481	466.7	116.4	541	524.9	130.9	601	583.1	145.4	661	641.4	159.9
362	351.2	87.6	422	409.5	102.1	482	467.7	116.6	542	525.9	131.1	602	584.1	145.6	662	642.3	160.2
363	352.2	87.8	423	410.4	102.3	483	468.7	116.8	543	526.9	131.4	603	585.1	145.9	663	643.3	160.4
364	353.2	88.1	424	411.4	102.6	484	469.6	117.1	544	527.8	131.6	604	586.1	146.1	664	644.3	160.6
365	354.2	88.3	425	412.4	102.8	485	470.6	117.3	545	528.8	131.8	605	587.0	146.4	665	645.2	160.9
366	355.1	88.5	426	413.3	103.1	486	471.6	117.6	546	529.8	132.1	606	588.0	146.6	666	646.2	161.1
367	356.1	88.8	427	414.3	103.3	487	472.5	117.8	547	530.8	132.3	607	589.0	146.8	667	647.2	161.4
368	357.1	89.0	428	415.3	103.5	488	473.5	118.1	548	531.7	132.6	608	589.9	147.1	668	648.2	161.6
369	358.0	89.3	429	416.3	103.8	489	474.5	118.3	549	532.7	132.8	609	590.9	147.3	669	649.1	161.8
370	359.0	89.5	430	417.2	104.0	490	475.4	118.5	550	533.7	133.1	610	591.9	147.6	670	650.1	162.1
371	360.0	89.8	431	418.2	104.3	491	476.4	118.8	551	534.6	133.3	611	592.9	147.8	671	651.1	162.3
372	361.0	90.0	432	419.2	104.5	492	477.4	119.0	552	535.6	133.5	612	593.8	148.1	672	652.0	162.6
373	361.9	90.2	433	420.1	104.8	493	478.4	119.3	553	536.6	133.8	613	594.8	148.3	673	653.0	162.8
374	362.9	90.5	434	421.1	105.0	494	479.3	119.5	554	537.5	134.0	614	595.8	148.5	674	654.0	163.1
375	363.9	90.7	435	422.1	105.2	495	480.3	119.8	555	538.5	134.3	615	596.7	148.8	675	654.9	163.3
376	364.8	91.0	436	423.0	105.5	496	481.3	120.0	556	539.5	134.5	616	597.7	149.0	676	655.9	163.5
377	365.8	91.2	437	424.0	105.7	497	482.2	120.2	557	540.5	134.8	617	598.7	149.3	677	656.9	163.8
378	366.8	91.4	438	425.0	106.0	498	483.2	120.5	558	541.4	135.0	618	599.6	149.5	678	657.9	164.0
379	367.7	91.7	439	426.0	106.2	499	484.2	120.7	559	542.4	135.2	619	600.6	149.7	679	658.8	164.3
380	368.7	91.9	440	426.9	106.4	500	485.1	121.0	560	543.4	135.5	620	601.6	150.0	680	659.8	164.5
381	369.7	92.2	441	427.9	106.7	501	486.1	121.2	561	544.3	135.7	621	602.6	150.2	681	660.8	164.7
382	370.7	92.4	442	428.9	106.9	502	487.1	121.4	562	545.3	136.0	622	603.5	150.5	682	661.7	165.0
383	371.6	92.7	443	429.8	107.2	503	488.1	121.7	563	546.3	136.2	623	604.5	150.7	683	662.7	165.2
384	372.6	92.9	444	430.8	107.4	504	489.0	121.9	564	547.2	136.4	624	605.5	151.0	684	663.7	165.5
385	373.6	93.1	445	431.8	107.7	505	490.0	122.2	565	548.2	136.7	625	606.4	151.2	685	664.7	165.7
386	374.5	93.4	446	432.8	107.9	506	491.0	122.4	566	549.2	136.9	626	607.4	151.4	686	665.6	166.0
387	375.5	93.6	447	433.7	108.1	507	491.9	122.7	567	550.2	137.2	627	608.4	151.7	687	666.6	166.2
388	376.5	93.9	448	434.7	108.4	508	492.9	122.9	568	551.1	137.4	628	609.3	151.9	688	667.6	166.4
389	377.4	94.1	449	435.7	108.6	509	493.9	123.1	569	552.1	137.7	629	610.3	152.2	689	668.5	166.7
390	378.4	94.3	450	436.6	108.9	510	494.9	123.4	570	553.1	137.9	630	611.3	152.4	690	669.5	166.9
391	379.4	94.6	451	437.6	109.1	511	495.8	123.6	571	554.0	138.1	631	612.3	152.7	691	670.5	167.2
392	380.4	94.8	452	438.6	109.3	512	496.8	123.9	572	555.0	138.4	632	613.2	152.9	692	671.4	167.4
393	381.3	95.1	453	439.5	109.6	513	497.8	124.1	573	556.0	138.6	633	614.2	153.1	693	672.4	167.7
394	382.3	95.3	454	440.5	109.8	514	498.7	124.3	574	556.9	138.9	634	615.2	153.4	694	673.4	167.9
395	383.3	95.6	455	441.5	110.1	515	499.7	124.6	575	557.9	139.1	635	616.1	153.6	695	674.4	168.1
396	384.2	95.8	456	442.5	110.3	516	500.7	124.8	576	558.9	139.3	636	617.1	153.9	696	675.3	168.4
397	385.2	96.0	457	443.4	110.6	517	501.6	125.1	577	559.9	139.6	637	618.1	154.1	697	676.3	168.6
398	386.2	96.3	458	444.4	110.8	518	502.6	125.3	578	560.8	139.8	638	619.0	154.3	698	677.3	168.9
399	387.1	96.5	459	445.4	111.0	519	503.6	125.6	579	561.8	140.1	639	620.0	154.6	699	678.2	169.1
400	388.1	96.8	460	446.3	111.3	520	504.6	125.8	580	562.8	140.3	640	621.0	154.8	700	679.2	169.3
401	389.1	97.0	461	447.3	111.5	521	505.5	126.0	581	563.7	140.6	641	622.0	155.1	701	680.2	169.6
402	390.1	97.3	462	448.3	111.8	522	506.5	126.3	582	564.7	140.8	642	622.9	155.3	702	681.1	169.8
403	391.0	97.5	463	449.2	112.0	523	507.5	126.5	583	565.7	141.0	643	623.9	155.6	703	682.1	170.1
404	392.0	97.7	464	450.2	112.3	524	508.4	126.8	584	566.7	141.3	644	624.9	155.8	704	683.1	170.3
405	393.0	98.0	465	451.2	112.5	525	509.4	127.0	585	567.6	141.5	645	625.8	156.0	705	684.1	170.6
406	393.9	98.2	466	452.2	112.7	526	510.4	127.3	586	568.6	141.8	646	626.8	156.3	706	685.0	170.8
407	394.9	98.5	467	453.1	113.0	527	511.3	127.5	587	569.6	142.0	647	627.8	156.5	707	686.0	171.0
408	395.9	98.7	468	454.1	113.2	528	512.3	127.7	588	570.5	142.3	648	628.8	156.8	708	687.0	171.3
409	396.9	98.9	469	455.1	113.5	529	513.3	128.0	589	571.5	142.5	649	629.7	157.0	709	687.9	171.5
410	397.8	99.2	470	456.0	113.7	530	514.3	128.2	590	572.5	142.7	650	630.7	157.2	710	688.9	171.8
411	398.8	99.4	471	457.0	113.9	531	515.2	128.5	591	573.4	143.0	651	631.7	157.5	711	689.9	172.0
412	399.8	99.7	472	458.0	114.2	532	516.2	128.7	592	574.4	143.2	652	632.6	157.7	712	690.9	172.2
413	400.7	99.9	473	459.0	114.4	533	517.2	128.9	593	575.4	143.5	653	633.6	158.0	713	691.8	172.5
414	401.7	100.2	474	459.9	114.7	534	518.1	129.2	594	576.4	143.7	654	634.6	158.2	714	692.8	172.7
415	402.7	100.4	475	460.9	114.9	535	519.1	129.4	595	577.3	143.9	655	635.5	158.5	715	693.8	173.0
416	403.6	100.6	476	461.9	115.2	536	520.1	129.7	596	578.3	144.2	656	636.5	158.7	716	694.7	173.2
417	404.6	100.9	477	462.8	115.4	537	521.0	129.9	597	579.3	144.4	657	637.5	158.9	717	695.7	173.5
418	405.6	101.1	478	463.8	115.6	538	522.0	130.2	598	580.2	144.7	658	638.5	159.2	718	696.7	173.7
419	406.6	101.4	479	464.8	115.9	539	523.0	130.4	599	581.2	144.9	659	639.4	159.4	719	697.6	173.9
420	407.5	101.6	480	465.7	116.1	540	524.0	130.6	600	582.2	145.2	660	640.4	159.7	720	698.6	174.2

D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI
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D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	1·0	0·3	61	58·9	15·8	121	116·9	31·3	181	174·8	46·8	241	232·8	62·4	301	290·7	77·9
2	1·9	0·5	62	59·9	16·0	122	117·8	31·6	182	175·8	47·1	242	233·8	62·6	302	291·7	78·2
3	2·9	0·8	63	60·9	16·3	123	118·8	31·8	183	176·8	47·4	243	234·7	62·9	303	292·7	78·4
4	3·9	1·0	64	61·8	16·6	124	119·8	32·1	184	177·7	47·6	244	235·7	63·2	304	293·6	78·7
5	4·8	1·3	65	62·8	16·8	125	120·7	32·4	185	178·7	47·9	245	236·7	63·4	305	294·6	78·9
6	5·8	1·6	66	63·8	17·1	126	121·7	32·6	186	179·7	48·1	246	237·6	63·7	306	295·6	79·2
7	6·8	1·8	67	64·7	17·3	127	122·7	32·9	187	180·6	48·4	247	238·6	63·9	307	296·5	79·5
8	7·7	2·1	68	65·7	17·6	128	123·6	33·1	188	181·6	48·7	248	239·5	64·2	308	297·5	79·7
9	8·7	2·3	69	66·6	17·9	129	124·6	33·4	189	182·6	48·9	249	240·5	64·4	309	298·5	80·0
10	9·7	2·6	70	67·6	18·1	130	125·6	33·6	190	183·5	49·2	250	241·5	64·7	310	299·4	80·2
11	10·6	2·8	71	68·6	18·4	131	126·5	33·9	191	184·5	49·4	251	242·4	65·0	311	300·4	80·5
12	11·6	3·1	72	69·5	18·6	132	127·5	34·2	192	185·5	49·7	252	243·4	65·2	312	301·4	80·8
13	12·6	3·4	73	70·5	18·9	133	128·5	34·4	193	186·4	50·0	253	244·4	65·5	313	302·3	81·0
14	13·5	3·6	74	71·5	19·2	134	129·4	34·7	194	187·4	50·2	254	245·3	65·7	314	303·3	81·3
15	14·5	3·9	75	72·4	19·4	135	130·4	34·9	195	188·4	50·5	255	246·3	66·0	315	304·3	81·5
16	15·5	4·1	76	73·4	19·7	136	131·4	35·2	196	189·3	50·7	256	247·3	66·3	316	305·2	81·8
17	16·4	4·4	77	74·4	19·9	137	132·3	35·5	197	190·3	51·0	257	248·2	66·5	317	306·2	82·0
18	17·4	4·7	78	75·3	20·2	138	133·3	35·7	198	191·2	51·2	258	249·2	66·8	318	307·2	82·3
19	18·4	4·9	79	76·3	20·4	139	134·3	36·0	199	192·2	51·5	259	250·2	67·0	319	308·1	82·6
20	19·3	5·2	80	77·3	20·7	140	135·2	36·2	200	193·2	51·8	260	251·1	67·3	320	309·1	82·8
21	20·3	5·4	81	78·2	21·0	141	136·2	36·5	201	194·2	52·0	261	252·1	67·6	321	310·1	83·1
22	21·3	5·7	82	79·2	21·2	142	137·2	36·8	202	195·1	52·3	262	253·1	67·8	322	311·0	83·3
23	22·2	6·0	83	80·2	21·5	143	138·1	37·0	203	196·1	52·5	263	254·0	68·1	323	312·0	83·6
24	23·2	6·2	84	81·1	21·7	144	139·1	37·3	204	197·0	52·8	264	255·0	68·3	324	313·0	83·9
25	24·1	6·5	85	82·1	22·0	145	140·1	37·5	205	198·0	53·1	265	256·0	68·6	325	313·9	84·1
26	25·1	6·7	86	83·1	22·3	146	141·0	37·8	206	199·0	53·3	266	256·9	68·8	326	314·9	84·4
27	26·1	7·0	87	84·0	22·5	147	142·0	38·0	207	199·9	53·6	267	257·9	69·1	327	315·9	84·6
28	27·0	7·2	88	85·0	22·8	148	143·0	38·3	208	200·9	53·8	268	258·9	69·4	328	316·8	84·9
29	28·0	7·5	89	86·0	23·0	149	143·9	38·6	209	201·9	54·1	269	259·8	69·6	329	317·8	85·2
30	29·0	7·8	90	86·9	23·3	150	144·9	38·8	210	202·8	54·4	270	260·8	69·9	330	318·8	85·4
31	29·9	8·0	91	87·9	23·6	151	145·9	39·1	211	203·8	54·6	271	261·8	70·1	331	319·7	85·7
32	30·9	8·3	92	88·9	23·8	152	146·8	39·3	212	204·8	54·9	272	262·7	70·4	332	320·7	85·9
33	31·9	8·5	93	89·8	24·1	153	147·8	39·6	213	205·7	55·1	273	263·7	70·7	333	321·7	86·2
34	32·8	8·8	94	90·8	24·3	154	148·8	39·9	214	206·7	55·4	274	264·7	70·9	334	322·6	86·4
35	33·8	9·1	95	91·8	24·6	155	149·7	40·1	215	207·7	55·6	275	265·6	71·2	335	323·6	86·7
36	34·8	9·3	96	92·7	24·8	156	150·7	40·4	216	208·6	55·9	276	266·6	71·4	336	324·6	87·0
37	35·7	9·6	97	93·7	25·1	157	151·7	40·6	217	209·6	56·2	277	267·6	71·7	337	325·5	87·2
38	36·7	9·8	98	94·7	25·4	158	152·6	40·9	218	210·6	56·4	278	268·5	72·0	338	326·5	87·5
39	37·7	10·1	99	95·6	25·6	159	153·6	41·2	219	211·5	56·7	279	269·5	72·2	339	327·4	87·7
40	38·6	10·4	100	95·6	25·9	160	154·5	41·4	220	212·5	56·9	280	270·5	72·5	340	328·4	88·0
41	39·6	10·6	101	97·6	26·1	161	155·5	41·7	221	213·5	57·2	281	271·4	72·7	341	329·4	88·3
42	40·6	10·9	102	98·5	26·4	162	156·5	41·9	222	214·4	57·5	282	272·4	73·0	342	330·3	88·5
43	41·5	11·1	103	99·5	26·7	163	157·4	42·2	223	215·4	57·7	283	273·4	73·2	343	331·3	88·8
44	42·5	11·4	104	100·5	26·9	164	158·4	42·4	224	216·4	58·0	284	274·3	73·5	344	332·3	89·0
45	43·5	11·6	105	101·4	27·2	165	159·4	42·7	225	217·3	58·2	285	275·3	73·8	345	333·2	89·3
46	44·4	11·9	106	102·4	27·4	166	160·3	43·0	226	218·3	58·5	286	276·3	74·0	346	334·2	89·6
47	45·4	12·2	107	103·4	27·7	167	161·3	43·2	227	219·3	58·8	287	277·2	74·3	347	335·2	89·8
48	46·4	12·4	108	104·3	28·0	168	162·3	43·5	228	220·2	59·0	288	278·2	74·5	348	336·1	90·1
49	47·3	12·7	109	105·3	28·2	169	163·2	43·7	229	221·2	59·3	289	279·2	74·8	349	337·1	90·3
50	48·3	12·9	110	106·3	28·5	170	164·2	44·0	230	222·2	59·5	290	280·1	75·1	350	338·1	90·6
51	49·3	13·2	111	107·2	28·7	171	165·2	44·3	231	223·1	59·8	291	281·1	75·3	351	339·0	90·8
52	50·2	13·5	112	108·2	29·0	172	166·1	44·5	232	224·1	60·0	292	282·1	75·6	352	340·0	91·1
53	51·2	13·7	113	109·1	29·2	173	167·1	44·8	233	225·1	60·3	293	283·0	75·8	353	341·0	91·4
54	52·2	14·0	114	110·1	29·5	174	168·1	45·0	234	226·0	60·6	294	284·0	76·1	354	341·9	91·6
55	53·1	14·2	115	111·1	29·8	175	169·0	45·3	235	227·0	60·8	295	284·9	76·4	355	342·9	91·9
56	54·1	14·5	116	112·0	30·0	176	170·0	45·6	236	228·0	61·1	296	285·9	76·6	356	343·9	92·1
57	55·1	14·8	117	113·0	30·3	177	171·0	45·8	237	228·9	61·3	297	286·9	76·9	357	344·8	92·4
58	56·0	15·0	118	114·0	30·5	178	171·9	46·1	238	229·9	61·6	298	287·8	77·1	358	345·8	92·7
59	57·0	15·3	119	114·9	30·8	179	172·9	46·3	239	230·9	61·9	299	288·8	77·4	359	346·8	92·9
60	58·0	15·5	120	115·9	31·1	180	173·9	46·6	240	231·8	62·1	300	289·8	77·6	360	347·7	93·2
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	348.7	93.4	421	406.7	109.0	481	464.6	124.5	541	522.6	140.0	601	580.5	155.6	661	638.5	171.1
362	349.7	93.7	422	407.6	109.2	482	465.6	124.8	542	523.5	140.3	602	581.5	155.8	662	639.4	171.3
363	350.6	94.0	423	408.6	109.5	483	466.5	125.0	543	524.5	140.5	603	582.5	156.1	663	640.4	171.6
364	351.6	94.2	424	409.6	109.7	484	467.5	125.3	544	525.5	140.8	604	583.4	156.3	664	641.4	171.9
365	352.6	94.5	425	410.5	110.0	485	468.5	125.5	545	526.4	141.1	605	584.4	156.6	665	642.3	172.1
366	353.5	94.7	426	411.5	110.3	486	469.4	125.8	546	527.4	141.3	606	585.4	156.8	666	643.3	172.4
367	354.5	95.0	427	412.5	110.5	487	470.4	126.0	547	528.4	141.6	607	586.3	157.1	667	644.3	172.6
368	355.5	95.2	428	413.4	110.8	488	471.4	126.3	548	529.3	141.8	608	587.3	157.4	668	645.2	172.9
369	356.4	95.5	429	414.4	111.0	489	472.3	126.6	549	530.3	142.1	609	588.2	157.6	669	646.2	173.1
370	357.4	95.8	430	415.3	111.3	490	473.3	126.8	550	531.3	142.4	610	589.2	157.9	670	647.2	173.4
371	358.4	96.0	431	416.3	111.6	491	474.3	127.1	551	532.2	142.6	611	590.2	158.1	671	648.1	173.7
372	359.3	96.3	432	417.3	111.8	492	475.2	127.3	552	533.2	142.9	612	591.1	158.4	672	649.1	173.9
373	360.3	96.5	433	418.2	112.1	493	476.2	127.6	553	534.2	143.1	613	592.1	158.7	673	650.1	174.2
374	361.3	96.8	434	419.2	112.3	494	477.2	127.9	554	535.1	143.4	614	593.1	158.9	674	651.0	174.4
375	362.2	97.1	435	420.2	112.6	495	478.1	128.1	555	536.1	143.6	615	594.0	159.2	675	652.0	174.7
376	363.2	97.3	436	421.1	112.8	496	479.1	128.4	556	537.1	143.9	616	595.0	159.4	676	653.0	175.0
377	364.2	97.6	437	422.1	113.1	497	480.1	128.6	557	538.0	144.2	617	596.0	159.7	677	653.9	175.2
378	365.1	97.8	438	423.1	113.4	498	481.0	128.9	558	539.0	144.4	618	596.9	160.0	678	654.9	175.5
379	366.1	98.1	439	424.0	113.6	499	482.0	129.2	559	540.0	144.7	619	597.9	160.2	679	655.9	175.7
380	367.1	98.4	440	425.0	113.9	500	483.0	129.4	560	540.9	144.9	620	598.9	160.5	680	656.8	176.0
381	368.0	98.6	441	426.0	114.1	501	483.9	129.7	561	541.9	145.2	621	599.8	160.7	681	657.8	176.3
382	369.0	98.9	442	426.9	114.4	502	484.9	129.9	562	542.9	145.5	622	600.8	161.0	682	658.8	176.5
383	369.9	99.1	443	427.9	114.7	503	485.9	130.2	563	543.8	145.7	623	601.8	161.2	683	659.7	176.8
384	370.9	99.4	444	428.9	114.9	504	486.8	130.4	564	544.8	146.0	624	602.7	161.5	684	660.7	177.0
385	371.9	99.6	445	429.8	115.2	505	487.8	130.7	565	545.7	146.2	625	603.7	161.8	685	661.7	177.3
386	372.8	99.9	446	430.8	115.4	506	488.8	131.0	566	546.7	146.5	626	604.7	162.0	686	662.6	177.5
387	373.8	100.2	447	431.8	115.7	507	489.7	131.2	567	547.7	146.8	627	605.6	162.3	687	663.6	177.8
388	374.8	100.4	448	432.7	116.0	508	490.7	131.5	568	548.6	147.0	628	606.6	162.5	688	664.6	178.1
389	375.7	100.7	449	433.7	116.2	509	491.7	131.7	569	549.6	147.3	629	607.6	162.8	689	665.5	178.3
390	376.7	100.9	450	434.7	116.5	510	492.6	132.0	570	550.6	147.5	630	608.5	163.1	690	666.5	178.6
391	377.7	101.2	451	435.6	116.7	511	493.6	132.3	571	551.5	147.8	631	609.5	163.3	691	667.5	178.8
392	378.6	101.5	452	436.6	117.0	512	494.6	132.5	572	552.5	148.0	632	610.5	163.6	692	668.4	179.1
393	379.6	101.7	453	437.6	117.2	513	495.5	132.8	573	553.5	148.3	633	611.4	163.8	693	669.4	179.4
394	380.6	102.0	454	438.5	117.5	514	496.5	133.0	574	554.4	148.6	634	612.4	164.1	694	670.4	179.6
395	381.5	102.2	455	439.5	117.8	515	497.5	133.3	575	555.4	148.8	635	613.4	164.4	695	671.3	179.9
396	382.5	102.5	456	440.5	118.0	516	498.4	133.6	576	556.4	149.1	636	614.3	164.6	696	672.3	180.1
397	383.5	102.8	457	441.4	118.3	517	499.4	133.8	577	557.3	149.3	637	615.3	164.9	697	673.3	180.4
398	384.4	103.0	458	442.4	118.5	518	500.3	134.1	578	558.3	149.6	638	616.3	165.1	698	674.2	180.7
399	385.4	103.3	459	443.4	118.8	519	501.3	134.3	579	559.3	149.9	639	617.2	165.4	699	675.2	180.9
400	386.4	103.5	460	444.3	119.1	520	502.3	134.6	580	560.2	150.1	640	618.2	165.6	700	676.1	181.2
401	387.3	103.8	461	445.3	119.3	521	503.2	134.8	581	561.2	150.4	641	619.2	165.9	701	677.1	181.4
402	388.3	104.0	462	446.3	119.6	522	504.2	135.1	582	562.2	150.6	642	620.1	166.2	702	678.1	181.7
403	389.3	104.3	463	447.2	119.8	523	505.2	135.4	583	563.1	150.9	643	621.1	166.4	703	679.0	181.9
404	390.2	104.6	464	448.2	120.1	524	506.1	135.6	584	564.1	151.2	644	622.1	166.7	704	680.0	182.2
405	391.2	104.8	465	449.2	120.4	525	507.1	135.9	585	565.1	151.4	645	623.0	166.9	705	681.0	182.5
406	392.2	105.1	466	450.1	120.6	526	508.1	136.1	586	566.0	151.7	646	624.0	167.2	706	681.9	182.7
407	393.1	105.3	467	451.1	120.9	527	509.0	136.4	587	567.0	151.9	647	625.0	167.5	707	682.9	183.0
408	394.1	105.6	468	452.1	121.1	528	510.0	136.7	588	568.0	152.2	648	625.9	167.7	708	683.9	183.2
409	395.1	105.9	469	453.0	121.4	529	511.0	136.9	589	568.9	152.4	649	626.9	168.0	709	684.8	183.5
410	396.0	106.1	470	454.0	121.6	530	511.9	137.2	590	569.9	152.7	650	627.9	168.2	710	685.8	183.8
411	397.0	106.4	471	455.0	121.9	531	512.9	137.4	591	570.9	153.0	651	628.8	168.5	711	686.8	184.0
412	398.0	106.6	472	455.9	122.2	532	513.9	137.7	592	571.8	153.2	652	629.8	168.7	712	687.7	184.3
413	398.9	106.9	473	456.9	122.4	533	514.8	138.0	593	572.8	153.5	653	630.7	169.0	713	688.7	184.5
414	399.9	107.2	474	457.8	122.7	534	515.8	138.2	594	573.8	153.7	654	631.7	169.3	714	689.7	184.8
415	400.9	107.4	475	458.8	122.9	535	516.8	138.5	595	574.7	154.0	655	632.7	169.5	715	690.6	185.1
416	401.8	107.7	476	459.8	123.2	536	517.7	138.7	596	575.7	154.3	656	633.6	169.8	716	691.6	185.3
417	402.8	107.9	477	460.7	123.5	537	518.7	139.0	597	576.7	154.5	657	634.6	170.0	717	692.6	185.6
418	403.8	108.2	478	461.7	123.7	538	519.7	139.2	598	577.6	154.8	658	635.6	170.3	718	693.5	185.8
419	404.7	108.4	479	462.7	124.0	539	520.6	139.5	599	578.6	155.0	659	636.5	170.6	719	694.5	186.1
420	405.7	108.7	480	463.6	124.2	540	521.6	139.8	600	579.6	155.3	660	637.5	170.8	720	695.5	186.3

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	1'0	0'3	61	58'6	16'8	121	116'3	33'4	181	174'0	49'9	241	231'7	66'4	301	289'3	83'0
2	1'9	0'6	62	59'6	17'1	122	117'3	33'6	182	174'9	50'2	242	232'6	66'7	302	290'3	83'2
3	2'9	0'8	63	60'6	17'4	123	118'2	33'9	183	175'9	50'4	243	233'6	67'0	303	291'3	83'5
4	3'8	1'1	64	61'5	17'6	124	119'2	34'2	184	176'9	50'7	244	234'5	67'3	304	292'2	83'8
5	4'8	1'4	65	62'5	17'9	125	120'2	34'5	185	177'8	51'0	245	235'5	67'5	305	293'2	84'1
6	5'8	1'7	66	63'4	18'2	126	121'1	34'7	186	178'8	51'3	246	236'5	67'8	306	294'1	84'3
7	6'7	1'9	67	64'4	18'5	127	122'1	35'0	187	179'8	51'5	247	237'4	68'1	307	295'1	84'6
8	7'7	2'2	68	65'4	18'7	128	123'0	35'3	188	180'7	51'8	248	238'4	68'4	308	296'1	84'9
9	8'7	2'5	69	66'3	19'0	129	124'0	35'6	189	181'7	52'1	249	239'4	68'6	309	297'0	85'2
10	9'6	2'8	70	67'3	19'3	130	125'0	35'8	190	182'6	52'4	250	240'3	68'9	310	298'0	85'4
11	10'6	3'0	71	68'2	19'6	131	125'9	36'1	191	183'6	52'6	251	241'3	69'2	311	299'0	85'7
12	11'5	3'3	72	69'2	19'8	132	126'9	36'4	192	184'6	52'9	252	242'2	69'5	312	299'9	86'0
13	12'5	3'6	73	70'2	20'1	133	127'8	36'7	193	185'5	53'2	253	243'2	69'7	313	300'9	86'3
14	13'5	3'9	74	71'1	20'4	134	128'8	36'9	194	186'5	53'5	254	244'2	70'0	314	301'8	86'6
15	14'4	4'1	75	72'1	20'7	135	129'8	37'2	195	187'4	53'7	255	245'1	70'3	315	302'8	86'8
16	15'4	4'4	76	73'1	20'9	136	130'7	37'5	196	188'4	54'0	256	246'1	70'6	316	303'8	87'1
17	16'3	4'7	77	74'0	21'2	137	131'7	37'8	197	189'4	54'3	257	247'0	70'8	317	304'7	87'4
18	17'3	5'0	78	75'0	21'5	138	132'7	38'0	198	190'3	54'6	258	248'0	71'1	318	305'7	87'7
19	18'3	5'2	79	75'9	21'8	139	133'6	38'3	199	191'3	54'9	259	249'0	71'4	319	306'6	87'9
20	19'2	5'5	80	76'9	22'1	140	134'6	38'6	200	192'3	55'1	260	249'9	71'7	320	307'6	88'2
21	20'2	5'8	81	77'9	22'3	141	135'5	38'9	201	193'2	55'4	261	250'9	71'9	321	308'6	88'5
22	21'1	6'1	82	78'8	22'6	142	136'5	39'1	202	194'2	55'7	262	251'9	72'2	322	309'5	88'8
23	22'1	6'3	83	79'8	22'9	143	137'5	39'4	203	195'1	56'0	263	252'8	72'5	323	310'5	89'0
24	23'1	6'6	84	80'7	23'2	144	138'4	39'7	204	196'1	56'2	264	253'8	72'8	324	311'4	89'3
25	24'0	6'9	85	81'7	23'4	145	139'4	40'0	205	197'1	56'5	265	254'7	73'0	325	312'4	89'6
26	25'0	7'2	86	82'7	23'7	146	140'3	40'2	206	198'0	56'8	266	255'7	73'3	326	313'4	89'9
27	26'0	7'4	87	83'6	24'0	147	141'3	40'5	207	199'0	57'1	267	256'7	73'6	327	314'3	90'1
28	26'9	7'7	88	84'6	24'3	148	142'3	40'8	208	199'9	57'3	268	257'6	73'9	328	315'3	90'4
29	27'9	8'0	89	85'6	24'5	149	143'2	41'1	209	200'9	57'6	269	258'6	74'1	329	316'3	90'7
30	28'8	8'3	90	86'5	24'8	150	144'2	41'3	210	201'9	57'9	270	259'5	74'4	330	317'2	91'0
31	29'8	8'5	91	87'5	25'1	151	145'2	41'6	211	202'8	58'2	271	260'5	74'7	331	318'2	91'2
32	30'8	8'8	92	88'4	25'4	152	146'1	41'9	212	203'8	58'4	272	261'5	75'0	332	319'1	91'5
33	31'7	9'1	93	89'4	25'6	153	147'1	42'2	213	204'7	58'7	273	262'4	75'2	333	320'1	91'8
34	32'7	9'4	94	90'4	25'9	154	148'0	42'4	214	205'7	59'0	274	263'4	75'5	334	321'1	92'1
35	33'6	9'6	95	91'3	26'2	155	149'0	42'7	215	206'7	59'3	275	264'3	75'8	335	322'0	92'3
36	34'6	9'9	96	92'3	26'5	156	150'0	43'0	216	207'6	59'5	276	265'3	76'1	336	323'0	92'6
37	35'6	10'2	97	93'2	26'7	157	150'9	43'3	217	208'6	59'8	277	266'3	76'4	337	323'9	92'9
38	36'5	10'5	98	94'2	27'0	158	151'9	43'6	218	209'6	60'1	278	267'2	76'6	338	324'9	93'2
39	37'5	10'7	99	95'2	27'3	159	152'8	43'8	219	210'5	60'4	279	268'2	76'9	339	325'9	93'4
40	38'5	11'0	100	96'1	27'6	160	153'8	44'1	220	211'5	60'6	280	269'2	77'2	340	326'8	93'7
41	39'4	11'3	101	97'1	27'8	161	154'8	44'4	221	212'4	60'9	281	270'1	77'5	341	327'8	94'0
42	40'4	11'6	102	98'0	28'1	162	155'7	44'7	222	213'4	61'2	282	271'1	77'7	342	328'8	94'3
43	41'3	11'9	103	99'0	28'4	163	156'7	44'9	223	214'4	61'5	283	272'0	78'0	343	329'7	94'5
44	42'3	12'1	104	100'0	28'7	164	157'6	45'2	224	215'3	61'7	284	273'0	78'3	344	330'7	94'8
45	43'3	12'4	105	100'9	28'9	165	158'6	45'5	225	216'3	62'0	285	274'0	78'6	345	331'6	95'1
46	44'2	12'7	106	101'9	29'2	166	159'6	45'8	226	217'2	62'3	286	274'9	78'8	346	332'6	95'4
47	45'2	13'0	107	102'9	29'5	167	160'5	46'0	227	218'2	62'6	287	275'9	79'1	347	333'6	95'6
48	46'1	13'2	108	103'8	29'8	168	161'5	46'3	228	219'2	62'8	288	276'8	79'4	348	334'5	95'9
49	47'1	13'5	109	104'8	30'0	169	162'5	46'6	229	220'1	63'1	289	277'8	79'7	349	335'5	96'2
50	48'1	13'8	110	105'7	30'3	170	163'4	46'9	230	221'1	63'4	290	278'8	79'9	350	336'4	96'5
51	49'0	14'1	111	106'7	30'6	171	164'4	47'1	231	222'1	63'7	291	279'7	80'2	351	337'4	96'7
52	50'0	14'3	112	107'7	30'9	172	165'3	47'4	232	223'0	63'9	292	280'7	80'5	352	338'4	97'0
53	50'9	14'6	113	108'6	31'1	173	166'3	47'7	233	224'0	64'2	293	281'6	80'8	353	339'3	97'3
54	51'9	14'9	114	109'6	31'4	174	167'3	48'0	234	224'9	64'5	294	282'6	81'0	354	340'3	97'6
55	52'9	15'2	115	110'5	31'7	175	168'2	48'2	235	225'9	64'8	295	283'6	81'3	355	341'2	97'9
56	53'8	15'4	116	111'5	32'0	176	169'2	48'5	236	226'9	65'1	296	284'5	81'6	356	342'2	98'1
57	54'8	15'7	117	112'5	32'2	177	170'1	48'8	237	227'8	65'3	297	285'5	81'9	357	343'2	98'4
58	55'8	16'0	118	113'4	32'5	178	171'1	49'1	238	228'8	65'6	298	286'5	82'1	358	344'1	98'7
59	56'7	16'3	119	114'4	32'8	179	172'1	49'3	239	229'7	65'9	299	287'4	82'4	359	345'1	99'0
60	57'7	16'5	120	115'4	33'1	180	173'0	49'6	240	230'7	66'2	300	288'4	82'7	360	346'1	99'2
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	347.0	99.5	421	404.7	116.0	481	462.4	132.6	541	520.0	149.1	601	577.7	165.7	661	635.4	182.2
362	348.0	99.8	422	405.7	116.3	482	463.3	132.9	542	521.0	149.4	602	578.7	165.9	662	636.4	182.5
363	348.9	100.1	423	406.6	116.6	483	464.3	133.1	543	522.0	149.7	603	579.6	166.2	663	637.3	182.7
364	349.9	100.3	424	407.6	116.9	484	465.3	133.4	544	522.9	149.9	604	580.6	166.5	664	638.3	183.0
365	350.9	100.6	425	408.5	117.1	485	466.2	133.7	545	523.9	150.2	605	581.6	166.8	665	639.2	183.3
366	351.8	100.9	426	409.5	117.4	486	467.2	134.0	546	524.8	150.5	606	582.5	167.0	666	640.2	183.6
367	352.8	101.2	427	410.5	117.7	487	468.1	134.2	547	525.8	150.8	607	583.5	167.3	667	641.2	183.8
368	353.7	101.4	428	411.4	118.0	488	469.1	134.5	548	526.8	151.0	608	584.4	167.6	668	642.1	184.1
369	354.7	101.7	429	412.4	118.2	489	470.1	134.8	549	527.7	151.3	609	585.4	167.9	669	643.1	184.4
370	355.7	102.0	430	413.3	118.5	490	471.0	135.1	550	528.7	151.6	610	586.4	168.1	670	644.0	184.7
371	356.6	102.3	431	414.3	118.8	491	472.0	135.3	551	529.7	151.9	611	587.3	168.4	671	645.0	185.0
372	357.6	102.5	432	415.3	119.1	492	472.9	135.6	552	530.6	152.2	612	588.3	168.7	672	646.0	185.2
373	358.6	102.8	433	416.2	119.4	493	473.9	135.9	553	531.6	152.4	613	589.3	169.0	673	646.9	185.5
374	359.5	103.1	434	417.2	119.6	494	474.9	136.2	554	532.5	152.7	614	590.2	169.2	674	647.9	185.8
375	360.5	103.4	435	418.1	119.9	495	475.8	136.4	555	533.5	153.0	615	591.2	169.5	675	648.9	186.1
376	361.4	103.6	436	419.1	120.2	496	476.8	136.7	556	534.5	153.3	616	592.1	169.8	676	649.8	186.3
377	362.4	103.9	437	420.1	120.5	497	477.7	137.0	557	535.4	153.5	617	593.1	170.1	677	650.8	186.6
378	363.4	104.2	438	421.0	120.7	498	478.7	137.3	558	536.4	153.8	618	594.1	170.3	678	651.7	186.9
379	364.3	104.5	439	422.0	121.0	499	479.7	137.5	559	537.3	154.1	619	595.0	170.6	679	652.7	187.2
380	365.3	104.7	440	423.0	121.3	500	480.6	137.8	560	538.3	154.4	620	596.0	170.9	680	653.7	187.4
381	366.2	105.0	441	423.9	121.6	501	481.6	138.1	561	539.3	154.6	621	596.9	171.2	681	654.6	187.7
382	367.2	105.3	442	424.9	121.8	502	482.6	138.4	562	540.2	154.9	622	597.9	171.4	682	655.6	188.0
383	368.2	105.6	443	425.8	122.1	503	483.5	138.6	563	541.2	155.2	623	598.9	171.7	683	656.5	188.3
384	369.1	105.8	444	426.8	122.4	504	484.5	138.9	564	542.2	155.5	624	599.8	172.0	684	657.5	188.5
385	370.1	106.1	445	427.8	122.7	505	485.4	139.2	565	543.1	155.7	625	600.8	172.3	685	658.5	188.8
386	371.0	106.4	446	428.7	122.9	506	486.4	139.5	566	544.1	156.0	626	601.8	172.5	686	659.4	189.1
387	372.0	106.7	447	429.7	123.2	507	487.4	139.7	567	545.0	156.3	627	602.7	172.8	687	660.4	189.4
388	373.0	106.9	448	430.6	123.5	508	488.3	140.0	568	546.0	156.6	628	603.7	173.1	688	661.3	189.6
389	373.9	107.2	449	431.6	123.8	509	489.3	140.3	569	547.0	156.8	629	604.6	173.4	689	662.3	189.9
390	374.9	107.5	450	432.6	124.0	510	490.2	140.6	570	547.9	157.1	630	605.6	173.7	690	663.3	190.2
391	375.9	107.8	451	433.5	124.3	511	491.2	140.9	571	548.9	157.4	631	606.6	173.9	691	664.2	190.5
392	376.8	108.0	452	434.5	124.6	512	492.2	141.1	572	549.8	157.7	632	607.5	174.2	692	665.2	190.7
393	377.8	108.3	453	435.5	124.9	513	493.1	141.4	573	550.8	157.9	633	608.5	174.5	693	666.2	191.0
394	378.7	108.6	454	436.4	125.1	514	494.1	141.7	574	551.8	158.2	634	609.4	174.8	694	667.1	191.3
395	379.7	108.9	455	437.4	125.4	515	495.0	142.0	575	552.7	158.5	635	610.4	175.0	695	668.1	191.6
396	380.7	109.2	456	438.3	125.7	516	496.0	142.2	576	553.7	158.8	636	611.4	175.3	696	669.0	191.8
397	381.6	109.4	457	439.3	126.0	517	497.0	142.5	577	554.6	159.0	637	612.3	175.6	697	670.0	192.1
398	382.6	109.7	458	440.3	126.2	518	497.9	142.8	578	555.6	159.3	638	613.3	175.9	698	671.0	192.4
399	383.5	110.0	459	441.2	126.5	519	498.9	143.1	579	556.6	159.6	639	614.2	176.1	699	671.9	192.7
400	384.5	110.3	460	442.2	126.8	520	499.9	143.3	580	557.5	159.9	640	615.2	176.4	700	672.9	192.9
401	385.5	110.5	461	443.1	127.1	521	500.8	143.6	581	558.5	160.1	641	616.2	176.7	701	673.8	193.2
402	386.4	110.8	462	444.1	127.3	522	501.8	143.9	582	559.5	160.4	642	617.1	177.0	702	674.8	193.5
403	387.4	111.1	463	445.1	127.6	523	502.7	144.2	583	560.4	160.7	643	618.1	177.2	703	675.8	193.8
404	388.3	111.4	464	446.0	127.9	524	503.7	144.4	584	561.4	161.0	644	619.1	177.5	704	676.7	194.0
405	389.3	111.6	465	447.0	128.2	525	504.7	144.7	585	562.3	161.2	645	620.0	177.8	705	677.7	194.3
406	390.3	111.9	466	447.9	128.4	526	505.6	145.0	586	563.3	161.5	646	621.0	178.1	706	678.7	194.6
407	391.2	112.2	467	448.9	128.7	527	506.6	145.3	587	564.3	161.8	647	621.9	178.3	707	679.6	194.9
408	392.2	112.5	468	449.9	129.0	528	507.5	145.5	588	565.2	162.1	648	622.9	178.6	708	680.6	195.2
409	393.2	112.7	469	450.8	129.3	529	508.5	145.8	589	566.2	162.4	649	623.9	178.9	709	681.5	195.4
410	394.1	113.0	470	451.8	129.5	530	509.5	146.1	590	567.1	162.6	650	624.8	179.2	710	682.5	195.7
411	395.1	113.3	471	452.8	129.8	531	510.4	146.4	591	568.1	162.9	651	625.8	179.4	711	683.5	196.0
412	396.0	113.6	472	453.7	130.1	532	511.4	146.6	592	569.1	163.2	652	626.7	179.7	712	684.4	196.3
413	397.0	113.8	473	454.7	130.4	533	512.4	146.9	593	570.0	163.5	653	627.7	180.0	713	685.4	196.5
414	398.0	114.1	474	455.6	130.7	534	513.3	147.2	594	571.0	163.7	654	628.7	180.3	714	686.3	196.8
415	398.9	114.4	475	456.6	130.9	535	514.3	147.5	595	572.0	164.0	655	629.6	180.5	715	687.3	197.1
416	399.9	114.7	476	457.6	131.2	536	515.2	147.7	596	572.9	164.3	656	630.6	180.8	716	688.3	197.4
417	400.8	114.9	477	458.5	131.5	537	516.2	148.0	597	573.9	164.6	657	631.5	181.1	717	689.2	197.6
418	401.8	115.2	478	459.5	131.8	538	517.2	148.3	598	574.8	164.8	658	632.5	181.4	718	690.2	197.9
419	402.8	115.5	479	460.4	132.0	539	518.1	148.6	599	575.8	165.1	659	633.5	181.6	719	691.1	198.2
420	403.7	115.8	480	461.4	132.3	540	519.1	148.8	600	576.8	165.4	660	634.4	181.9	720	692.1	198.5

D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep
1	1.0	0.3	61	58.3	17.8	121	115.7	35.4	181	173.1	52.9	241	230.5	70.5	301	287.8	88.0
2	1.9	0.6	62	59.3	18.1	122	116.7	35.7	182	174.0	53.2	242	231.4	70.8	302	288.8	88.3
3	2.9	0.9	63	60.2	18.4	123	117.6	36.0	183	175.0	53.5	243	232.4	71.0	303	289.8	88.6
4	3.8	1.2	64	61.2	18.7	124	118.6	36.3	184	176.0	53.8	244	233.3	71.3	304	290.7	88.9
5	4.8	1.5	65	62.2	19.0	125	119.5	36.5	185	176.9	54.1	245	234.3	71.6	305	291.7	89.2
6	5.7	1.8	66	63.1	19.3	126	120.5	36.8	186	177.9	54.4	246	235.3	71.9	306	292.6	89.5
7	6.7	2.0	67	64.1	19.6	127	121.5	37.1	187	178.8	54.7	247	236.2	72.2	307	293.6	89.8
8	7.7	2.3	68	65.0	19.9	128	122.4	37.4	188	179.8	55.0	248	237.2	72.5	308	294.5	90.1
9	8.6	2.6	69	66.0	20.2	129	123.4	37.7	189	180.7	55.3	249	238.1	72.8	309	295.5	90.3
10	9.6	2.9	70	66.9	20.5	130	124.3	38.0	190	181.7	55.6	250	239.1	73.1	310	296.5	90.6
11	10.5	3.2	71	67.9	20.8	131	125.3	38.3	191	182.7	55.8	251	240.0	73.4	311	297.4	90.9
12	11.5	3.5	72	68.9	21.1	132	126.2	38.6	192	183.6	56.1	252	241.0	73.7	312	298.4	91.2
13	12.4	3.8	73	69.8	21.3	133	127.2	38.9	193	184.6	56.4	253	241.9	74.0	313	299.3	91.5
14	13.4	4.1	74	70.8	21.6	134	128.1	39.2	194	185.5	56.7	254	242.9	74.3	314	300.3	91.8
15	14.3	4.4	75	71.7	21.9	135	129.1	39.5	195	186.5	57.0	255	243.9	74.6	315	301.2	92.1
16	15.3	4.7	76	72.7	22.2	136	130.1	39.8	196	187.4	57.3	256	244.8	74.8	316	302.2	92.4
17	16.3	5.0	77	73.6	22.5	137	131.0	40.1	197	188.4	57.6	257	245.8	75.1	317	303.1	92.7
18	17.2	5.3	78	74.6	22.8	138	132.0	40.3	198	189.3	57.9	258	246.7	75.4	318	304.1	93.0
19	18.2	5.6	79	75.5	23.1	139	132.9	40.6	199	190.3	58.2	259	247.7	75.7	319	305.1	93.3
20	19.1	5.8	80	76.5	23.4	140	133.9	40.9	200	191.3	58.5	260	248.6	76.0	320	306.0	93.6
21	20.1	6.1	81	77.5	23.7	141	134.8	41.2	201	192.2	58.8	261	249.6	76.3	321	307.0	93.9
22	21.0	6.4	82	78.4	24.0	142	135.8	41.5	202	193.2	59.1	262	250.6	76.6	322	307.9	94.1
23	22.0	6.7	83	79.4	24.3	143	136.8	41.8	203	194.1	59.4	263	251.5	76.9	323	308.9	94.4
24	23.0	7.0	84	80.3	24.6	144	137.7	42.1	204	195.1	59.6	264	252.5	77.2	324	309.8	94.7
25	23.9	7.3	85	81.3	24.9	145	138.7	42.4	205	196.0	59.9	265	253.4	77.5	325	310.8	95.0
26	24.9	7.6	86	82.2	25.1	146	139.6	42.7	206	197.0	60.2	266	254.4	77.8	326	311.8	95.3
27	25.8	7.9	87	83.2	25.4	147	140.6	43.0	207	198.0	60.5	267	255.3	78.1	327	312.7	95.6
28	26.8	8.2	88	84.2	25.7	148	141.5	43.3	208	198.9	60.8	268	256.3	78.4	328	313.7	95.9
29	27.7	8.5	89	85.1	26.0	149	142.5	43.6	209	199.9	61.1	269	257.2	78.6	329	314.6	96.2
30	28.7	8.8	90	86.1	26.3	150	143.4	43.9	210	200.8	61.4	270	258.2	78.9	330	315.6	96.5
31	29.6	9.1	91	87.0	26.6	151	144.4	44.1	211	201.8	61.7	271	259.2	79.2	331	316.5	96.8
32	30.6	9.4	92	88.0	26.9	152	145.4	44.4	212	202.7	62.0	272	260.1	79.5	332	317.5	97.1
33	31.6	9.6	93	88.9	27.2	153	146.3	44.7	213	203.7	62.3	273	261.1	79.8	333	318.4	97.4
34	32.5	9.9	94	89.9	27.5	154	147.3	45.0	214	204.6	62.6	274	262.0	80.1	334	319.4	97.7
35	33.5	10.2	95	90.8	27.8	155	148.2	45.3	215	205.6	62.9	275	263.0	80.4	335	320.4	97.9
36	34.4	10.5	96	91.8	28.1	156	149.2	45.6	216	206.6	63.2	276	263.9	80.7	336	321.3	98.2
37	35.4	10.8	97	92.8	28.4	157	150.1	45.9	217	207.5	63.4	277	264.9	81.0	337	322.3	98.5
38	36.3	11.1	98	93.7	28.7	158	151.1	46.2	218	208.5	63.7	278	265.9	81.3	338	323.2	98.8
39	37.3	11.4	99	94.7	28.9	159	152.1	46.5	219	209.4	64.0	279	266.8	81.6	339	324.2	99.1
40	38.3	11.7	100	95.6	29.2	160	153.0	46.8	220	210.4	64.3	280	267.8	81.9	340	325.1	99.4
41	39.2	12.0	101	96.6	29.5	161	154.0	47.1	221	211.3	64.6	281	268.7	82.2	341	326.1	99.7
42	40.2	12.3	102	97.5	29.8	162	154.9	47.4	222	212.3	64.9	282	269.7	82.4	342	327.1	100.0
43	41.1	12.6	103	98.5	30.1	163	155.9	47.7	223	213.3	65.2	283	270.6	82.7	343	328.0	100.3
44	42.1	12.9	104	99.5	30.4	164	156.8	47.9	224	214.2	65.5	284	271.6	83.0	344	329.0	100.6
45	43.0	13.2	105	100.4	30.7	165	157.8	48.2	225	215.2	65.8	285	272.5	83.3	345	329.9	100.9
46	44.0	13.4	106	101.4	31.0	166	158.7	48.5	226	216.1	66.1	286	273.5	83.6	346	330.9	101.2
47	44.9	13.7	107	102.3	31.3	167	159.7	48.8	227	217.1	66.4	287	274.5	83.9	347	331.8	101.5
48	45.9	14.0	108	103.3	31.6	168	160.7	49.1	228	218.0	66.7	288	275.4	84.2	348	332.8	101.7
49	46.9	14.3	109	104.2	31.9	169	161.6	49.4	229	219.0	67.0	289	276.4	84.5	349	333.8	102.0
50	47.8	14.6	110	105.2	32.2	170	162.6	49.7	230	220.0	67.2	290	277.3	84.8	350	334.7	102.3
51	48.8	14.9	111	106.1	32.5	171	163.5	50.0	231	220.9	67.5	291	278.3	85.1	351	335.7	102.6
52	49.7	15.2	112	107.1	32.7	172	164.5	50.3	232	221.9	67.8	292	279.2	85.4	352	336.6	102.9
53	50.7	15.5	113	108.1	33.0	173	165.4	50.6	233	222.8	68.1	293	280.2	85.7	353	337.6	103.2
54	51.6	15.8	114	109.0	33.3	174	166.4	50.9	234	223.8	68.4	294	281.2	86.0	354	338.5	103.5
55	52.6	16.1	115	110.0	33.6	175	167.4	51.2	235	224.7	68.7	295	282.1	86.2	355	339.5	103.8
56	53.6	16.4	116	110.9	33.9	176	168.3	51.5	236	225.7	69.0	296	283.1	86.5	356	340.4	104.1
57	54.5	16.7	117	111.9	34.2	177	169.3	51.7	237	226.6	69.3	297	284.0	86.8	357	341.4	104.4
58	55.5	17.0	118	112.8	34.5	178	170.2	52.0	238	227.6	69.6	298	285.0	87.1	358	342.4	104.7
59	56.4	17.2	119	113.8	34.8	179	171.2	52.3	239	228.6	69.9	299	285.9	87.4	359	343.3	105.0
60	57.4	17.5	120	114.8	35.1	180	172.1	52.6	240	229.5	70.2	300	286.9	87.7	360	344.3	105.3
D	Dep	Δl	D	Dep	Δl	D	Dep	Δl	D	Dep	Δl	D	Dep	Δl	D	Dep	Δl

D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep
361	345.2	105.5	421	402.6	123.1	481	460.0	140.6	541	517.4	158.2	601	574.7	175.7	661	632.1	193.3
362	346.2	105.8	422	403.6	123.4	482	460.9	140.9	542	518.3	158.5	602	575.7	176.0	662	633.1	193.6
363	347.1	106.1	423	404.5	123.7	483	461.9	141.2	543	519.3	158.8	603	576.7	176.3	663	634.0	193.8
364	348.1	106.4	424	405.5	124.0	484	462.9	141.5	544	520.2	159.1	604	577.6	176.6	664	635.0	194.1
365	349.1	106.7	425	406.4	124.3	485	463.8	141.8	545	521.2	159.3	605	578.6	176.9	665	635.9	194.4
366	350.0	107.0	426	407.4	124.6	486	464.8	142.1	546	522.1	159.6	606	579.5	177.2	666	636.9	194.7
367	351.0	107.3	427	408.3	124.8	487	465.7	142.4	547	523.1	159.9	607	580.5	177.5	667	637.9	195.0
368	351.9	107.6	428	409.3	125.1	488	466.7	142.7	548	524.1	160.2	608	581.4	177.8	668	638.8	195.3
369	352.9	107.9	429	410.3	125.4	489	467.6	143.0	549	525.0	160.5	609	582.4	178.1	669	639.8	195.6
370	353.8	108.2	430	411.2	125.7	490	468.6	143.3	550	526.0	160.8	610	583.3	178.3	670	640.7	195.9
371	354.8	108.5	431	412.2	126.0	491	469.5	143.6	551	526.9	161.1	611	584.3	178.6	671	641.7	196.2
372	355.7	108.8	432	413.1	126.3	492	470.5	143.8	552	527.9	161.4	612	585.3	178.9	672	642.6	196.5
373	356.7	109.1	433	414.1	126.6	493	471.5	144.1	553	528.8	161.7	613	586.2	179.2	673	643.6	196.8
374	357.7	109.3	434	415.1	126.9	494	472.4	144.4	554	529.8	162.0	614	587.2	179.5	674	644.5	197.1
375	358.6	109.6	435	416.0	127.2	495	473.4	144.7	555	530.7	162.3	615	588.1	179.8	675	645.5	197.4
376	359.6	109.9	436	416.9	127.5	496	474.3	145.0	556	531.7	162.6	616	589.1	180.1	676	646.5	197.6
377	360.5	110.2	437	417.9	127.8	497	475.3	145.3	557	532.7	162.9	617	590.0	180.4	677	647.4	197.9
378	361.5	110.5	438	418.9	128.1	498	476.2	145.6	558	533.6	163.1	618	591.0	180.7	678	648.4	198.2
379	362.4	110.8	439	419.8	128.4	499	477.2	145.9	559	534.6	163.4	619	592.0	181.0	679	649.3	198.5
380	363.4	111.1	440	420.8	128.6	500	478.2	146.2	560	535.5	163.7	620	592.9	181.3	680	650.3	198.8
381	364.4	111.4	441	421.7	128.9	501	479.1	146.5	561	536.5	164.0	621	593.9	181.6	681	651.2	199.1
382	365.3	111.7	442	422.7	129.2	502	480.1	146.8	562	537.4	164.3	622	594.8	181.9	682	652.2	199.4
383	366.3	112.0	443	423.6	129.5	503	481.0	147.1	563	538.4	164.6	623	595.8	182.1	683	653.2	199.7
384	367.2	112.3	444	424.6	129.8	504	482.0	147.4	564	539.4	164.9	624	596.7	182.4	684	654.1	200.0
385	368.2	112.6	445	425.6	130.1	505	482.9	147.6	565	540.3	165.2	625	597.7	182.7	685	655.1	200.3
386	369.1	112.9	446	426.5	130.4	506	483.9	147.9	566	541.3	165.5	626	598.6	183.0	686	656.0	200.6
387	370.1	113.1	447	427.5	130.7	507	484.8	148.2	567	542.2	165.8	627	599.6	183.3	687	657.0	200.9
388	371.0	113.4	448	428.4	131.0	508	485.8	148.5	568	543.2	166.1	628	600.6	183.6	688	657.9	201.2
389	372.0	113.7	449	429.4	131.3	509	486.8	148.8	569	544.1	166.4	629	601.5	183.9	689	658.9	201.4
390	373.0	114.0	450	430.3	131.6	510	487.7	149.1	570	545.1	166.7	630	602.5	184.2	690	659.9	201.7
391	373.9	114.3	451	431.3	131.9	511	488.7	149.4	571	546.1	166.9	631	603.4	184.5	691	660.8	202.0
392	374.9	114.6	452	432.2	132.2	512	489.6	149.7	572	547.0	167.2	632	604.4	184.8	692	661.8	202.3
393	375.8	114.9	453	433.2	132.4	513	490.6	150.0	573	548.0	167.5	633	605.3	185.1	693	662.7	202.6
394	376.8	115.2	454	434.2	132.7	514	491.5	150.3	574	548.9	167.8	634	606.3	185.4	694	663.7	202.9
395	377.7	115.5	455	435.1	133.0	515	492.5	150.6	575	549.9	168.1	635	607.3	185.7	695	664.6	203.2
396	378.7	115.8	456	436.1	133.3	516	493.5	150.9	576	550.8	168.4	636	608.2	185.9	696	665.6	203.5
397	379.7	116.1	457	437.0	133.6	517	494.4	151.2	577	551.8	168.7	637	609.2	186.2	697	666.5	203.8
398	380.6	116.4	458	438.0	133.9	518	495.4	151.4	578	552.7	169.0	638	610.1	186.5	698	667.5	204.1
399	381.6	116.7	459	438.9	134.2	519	496.3	151.7	579	553.7	169.3	639	611.1	186.8	699	668.5	204.4
400	382.5	116.9	460	439.9	134.5	520	497.3	152.0	580	554.7	169.6	640	612.0	187.1	700	669.4	204.7
401	383.5	117.2	461	440.9	134.8	521	498.2	152.3	581	555.6	169.9	641	613.0	187.4	701	670.4	205.0
402	384.4	117.5	462	441.8	135.1	522	499.2	152.6	582	556.6	170.2	642	613.9	187.7	702	671.3	205.2
403	385.4	117.8	463	442.8	135.4	523	500.1	152.9	583	557.5	170.5	643	614.9	188.0	703	672.3	205.5
404	386.3	118.1	464	443.7	135.7	524	501.1	153.2	584	558.5	170.7	644	615.9	188.3	704	673.2	205.8
405	387.3	118.4	465	444.7	136.0	525	502.1	153.5	585	559.4	171.0	645	616.8	188.6	705	674.2	206.1
406	388.3	118.7	466	445.6	136.2	526	503.0	153.8	586	560.4	171.3	646	617.8	188.9	706	675.2	206.4
407	389.2	119.0	467	446.6	136.5	527	504.0	154.1	587	561.4	171.6	647	618.7	189.2	707	676.1	206.7
408	390.2	119.3	468	447.6	136.8	528	504.9	154.4	588	562.3	171.9	648	619.7	189.5	708	677.1	207.0
409	391.1	119.6	469	448.5	137.1	529	505.9	154.7	589	563.3	172.2	649	620.6	189.7	709	678.0	207.3
410	392.1	119.9	470	449.5	137.4	530	506.8	155.0	590	564.2	172.5	650	621.6	190.0	710	679.0	207.6
411	393.0	120.2	471	450.4	137.7	531	507.8	155.2	591	565.2	172.8	651	622.6	190.3	711	679.9	207.9
412	394.0	120.5	472	451.4	138.0	532	508.8	155.5	592	566.1	173.1	652	623.5	190.6	712	680.9	208.2
413	395.0	120.7	473	452.3	138.3	533	509.7	155.8	593	567.1	173.4	653	624.5	190.9	713	681.8	208.5
414	395.9	121.0	474	453.3	138.6	534	510.7	156.1	594	568.0	173.7	654	625.4	191.2	714	682.8	208.8
415	396.9	121.3	475	454.2	138.9	535	511.6	156.4	595	569.0	174.0	655	626.4	191.5	715	683.8	209.0
416	397.8	121.6	476	455.2	139.2	536	512.6	156.7	596	570.0	174.3	656	627.3	191.8	716	684.7	209.3
417	398.8	121.9	477	456.2	139.5	537	513.5	157.0	597	570.9	174.5	657	628.3	192.1	717	685.7	209.6
418	399.7	122.2	478	457.1	139.8	538	514.5	157.3	598	571.9	174.8	658	629.2	192.4	718	686.6	209.9
419	400.7	122.5	479	458.1	140.0	539	515.4	157.6	599	572.8	175.1	659	630.2	192.7	719	687.6	210.2
420	401.6	122.8	480	459.0	140.3	540	516.4	157.9	600	573.8	175.4	660	631.2	193.0	720	688.5	210.5

D	Dep	Δl	D	Dep	Δl	D	Dep	Δl	D	Dep	Δl	D	Dep	Δl	D	Dep	Δl
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D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	1.0	0.3	61	58.0	18.9	121	115.1	37.4	181	172.1	55.9	241	229.2	74.5	301	286.3	93.0
2	1.9	0.6	62	59.0	19.2	122	116.0	37.7	182	173.1	56.2	242	230.2	74.8	302	287.2	93.3
3	2.9	0.9	63	59.9	19.5	123	117.0	38.0	183	174.0	56.6	243	231.1	75.1	303	288.2	93.6
4	3.8	1.2	64	60.9	19.8	124	117.9	38.3	184	175.0	56.9	244	232.1	75.4	304	289.1	93.9
5	4.8	1.5	65	61.8	20.1	125	118.9	38.6	185	175.9	57.2	245	233.0	75.7	305	290.1	94.3
6	5.7	1.9	66	62.8	20.4	126	119.8	38.9	186	176.9	57.5	246	234.0	76.0	306	291.0	94.6
7	6.7	2.2	67	63.7	20.7	127	120.8	39.2	187	177.8	57.8	247	234.9	76.3	307	292.0	94.9
8	7.6	2.5	68	64.7	21.0	128	121.7	39.6	188	178.8	58.1	248	235.9	76.6	308	292.9	95.2
9	8.6	2.8	69	65.6	21.3	129	122.7	39.9	189	179.7	58.4	249	236.8	76.9	309	293.9	95.5
10	9.5	3.1	70	66.6	21.6	130	123.6	40.2	190	180.7	58.7	250	237.8	77.3	310	294.8	95.8
11	10.5	3.4	71	67.5	21.9	131	124.6	40.5	191	181.7	59.0	251	238.7	77.6	311	295.8	96.1
12	11.4	3.7	72	68.5	22.2	132	125.5	40.8	192	182.6	59.3	252	239.7	77.9	312	296.7	96.4
13	12.4	4.0	73	69.4	22.6	133	126.5	41.1	193	183.6	59.6	253	240.6	78.2	313	297.7	96.7
14	13.3	4.3	74	70.4	22.9	134	127.4	41.4	194	184.5	59.9	254	241.6	78.5	314	298.6	97.0
15	14.3	4.6	75	71.3	23.2	135	128.4	41.7	195	185.5	60.3	255	242.5	78.8	315	299.6	97.3
16	15.2	4.9	76	72.3	23.5	136	129.3	42.0	196	186.4	60.6	256	243.5	79.1	316	300.5	97.6
17	16.2	5.3	77	73.2	23.8	137	130.3	42.3	197	187.4	60.9	257	244.4	79.4	317	301.5	98.0
18	17.1	5.6	78	74.2	24.1	138	131.2	42.6	198	188.3	61.2	258	245.4	79.7	318	302.4	98.3
19	18.1	5.9	79	75.1	24.4	139	132.2	43.0	199	189.3	61.5	259	246.3	80.0	319	303.4	98.6
20	19.0	6.2	80	76.1	24.7	140	133.1	43.3	200	190.2	61.8	260	247.3	80.3	320	304.3	98.9
21	20.0	6.5	81	77.0	25.0	141	134.1	43.6	201	191.2	62.1	261	248.2	80.7	321	305.3	99.2
22	20.9	6.8	82	78.0	25.3	142	135.1	43.9	202	192.1	62.4	262	249.2	81.0	322	306.2	99.5
23	21.9	7.1	83	78.9	25.6	143	136.0	44.2	203	193.1	62.7	263	250.1	81.3	323	307.2	99.8
24	22.8	7.4	84	79.9	26.0	144	137.0	44.5	204	194.0	63.0	264	251.1	81.6	324	308.1	100.1
25	23.8	7.7	85	80.8	26.3	145	137.9	44.8	205	195.0	63.3	265	252.0	81.9	325	309.1	100.4
26	24.7	8.0	86	81.8	26.6	146	138.9	45.1	206	195.9	63.7	266	253.0	82.2	326	310.0	100.7
27	25.7	8.3	87	82.7	26.9	147	139.8	45.4	207	196.9	64.0	267	253.9	82.5	327	311.0	101.0
28	26.6	8.7	88	83.7	27.2	148	140.8	45.7	208	197.8	64.3	268	254.9	82.8	328	311.9	101.4
29	27.6	9.0	89	84.6	27.5	149	141.7	46.0	209	198.8	64.6	269	255.8	83.1	329	312.9	101.7
30	28.5	9.3	90	85.6	27.8	150	142.7	46.4	210	199.7	64.9	270	256.8	83.4	330	313.8	102.0
31	29.5	9.6	91	86.5	28.1	151	143.6	46.7	211	200.7	65.2	271	257.7	83.7	331	314.8	102.3
32	30.4	9.9	92	87.5	28.4	152	144.6	47.0	212	201.6	65.5	272	258.7	84.1	332	315.8	102.6
33	31.4	10.2	93	88.4	28.7	153	145.5	47.3	213	202.6	65.8	273	259.6	84.4	333	316.7	102.9
34	32.3	10.5	94	89.4	29.0	154	146.5	47.6	214	203.5	66.1	274	260.6	84.7	334	317.7	103.2
35	33.3	10.8	95	90.4	29.4	155	147.4	47.9	215	204.5	66.4	275	261.5	85.0	335	318.6	103.5
36	34.2	11.1	96	91.3	29.7	156	148.4	48.2	216	205.4	66.7	276	262.5	85.3	336	319.6	103.8
37	35.2	11.4	97	92.3	30.0	157	149.3	48.5	217	206.4	67.1	277	263.4	85.6	337	320.5	104.1
38	36.1	11.7	98	93.2	30.3	158	150.3	48.8	218	207.3	67.4	278	264.4	85.9	338	321.5	104.4
39	37.1	12.1	99	94.2	30.6	159	151.2	49.1	219	208.3	67.7	279	265.3	86.2	339	322.4	104.8
40	38.0	12.4	100	95.1	30.9	160	152.2	49.4	220	209.2	68.0	280	266.3	86.5	340	323.4	105.1
41	39.0	12.7	101	96.1	31.2	161	153.1	49.8	221	210.2	68.3	281	267.2	86.8	341	324.3	105.4
42	39.9	13.0	102	97.0	31.5	162	154.1	50.1	222	211.1	68.6	282	268.2	87.1	342	325.3	105.7
43	40.9	13.3	103	98.0	31.8	163	155.0	50.4	223	212.1	68.9	283	269.1	87.5	343	326.2	106.0
44	41.8	13.6	104	98.9	32.1	164	156.0	50.7	224	213.0	69.2	284	270.1	87.8	344	327.2	106.3
45	42.8	13.9	105	99.9	32.4	165	156.9	51.0	225	214.0	69.5	285	271.1	88.1	345	328.1	106.6
46	43.7	14.2	106	100.8	32.8	166	157.9	51.3	226	214.9	69.8	286	272.0	88.4	346	329.1	106.9
47	44.7	14.5	107	101.8	33.1	167	158.8	51.6	227	215.9	70.1	287	273.0	88.7	347	330.0	107.2
48	45.7	14.8	108	102.7	33.4	168	159.8	51.9	228	216.8	70.5	288	273.9	89.0	348	331.0	107.5
49	46.6	15.1	109	103.7	33.7	169	160.7	52.2	229	217.8	70.8	289	274.9	89.3	349	331.9	107.8
50	47.6	15.5	110	104.6	34.0	170	161.7	52.5	230	218.7	71.1	290	275.8	89.6	350	332.9	108.2
51	48.5	15.8	111	105.6	34.3	171	162.6	52.8	231	219.7	71.4	291	276.8	89.9	351	333.8	108.5
52	49.5	16.1	112	106.5	34.6	172	163.6	53.2	232	220.6	71.7	292	277.7	90.2	352	334.8	108.8
53	50.4	16.4	113	107.5	34.9	173	164.5	53.5	233	221.6	72.0	293	278.7	90.5	353	335.7	109.1
54	51.4	16.7	114	108.4	35.2	174	165.5	53.8	234	222.5	72.3	294	279.6	90.9	354	336.7	109.4
55	52.3	17.0	115	109.4	35.5	175	166.4	54.1	235	223.5	72.6	295	280.6	91.2	355	337.6	109.7
56	53.3	17.3	116	110.3	35.8	176	167.4	54.4	236	224.4	72.9	296	281.5	91.5	356	338.6	110.0
57	54.2	17.6	117	111.3	36.2	177	168.3	54.7	237	225.4	73.2	297	282.5	91.8	357	339.5	110.3
58	55.2	17.9	118	112.2	36.5	178	169.3	55.0	238	226.4	73.5	298	283.4	92.1	358	340.5	110.6
59	56.1	18.2	119	113.2	36.8	179	170.2	55.3	239	227.3	73.9	299	284.4	92.4	359	341.4	110.9
60	57.1	18.5	120	114.1	37.1	180	171.2	55.6	240	228.3	74.2	300	285.3	92.7	360	342.4	111.2
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	343.3	111.6	421	400.4	130.1	481	457.5	148.6	541	514.5	167.2	601	571.5	185.7	661	628.6	204.3
362	344.3	111.9	422	401.3	130.4	482	458.4	148.9	542	515.5	167.5	602	572.5	186.0	662	629.6	204.6
363	345.2	112.2	423	402.3	130.7	483	459.4	149.3	543	516.4	167.8	603	573.5	186.3	663	630.6	204.9
364	346.2	112.5	424	403.2	131.0	484	460.3	149.6	544	517.4	168.1	604	574.4	186.6	664	631.5	205.2
365	347.1	112.8	425	404.2	131.3	485	461.3	149.9	545	518.3	168.4	605	575.4	187.0	665	632.5	205.5
366	348.1	113.1	426	405.2	131.6	486	462.2	150.2	546	519.3	168.7	606	576.3	187.3	666	633.4	205.8
367	349.0	113.4	427	406.1	132.0	487	463.2	150.5	547	520.2	169.0	607	577.3	187.6	667	634.4	206.1
368	350.0	113.7	428	407.1	132.3	488	464.1	150.8	548	521.2	169.3	608	578.2	187.9	668	635.3	206.4
369	350.9	114.0	429	408.0	132.6	489	465.1	151.1	549	522.1	169.7	609	579.2	188.2	669	636.3	206.7
370	351.9	114.3	430	409.0	132.9	490	466.0	151.4	550	523.1	170.0	610	580.1	188.5	670	637.2	207.0
371	352.8	114.6	431	409.9	133.2	491	467.0	151.7	551	524.0	170.3	611	581.1	188.8	671	638.2	207.4
372	353.8	115.0	432	410.9	133.5	492	467.9	152.0	552	525.0	170.6	612	582.0	189.1	672	639.1	207.7
373	354.7	115.3	433	411.8	133.8	493	468.9	152.3	553	525.9	170.9	613	583.0	189.4	673	640.1	208.0
374	355.7	115.6	434	412.8	134.1	494	469.8	152.7	554	526.9	171.2	614	583.9	189.7	674	641.0	208.3
375	356.6	115.9	435	413.7	134.4	495	470.8	153.0	555	527.8	171.5	615	584.9	190.0	675	642.0	208.6
376	357.6	116.2	436	414.7	134.7	496	471.7	153.3	556	528.8	171.8	616	585.9	190.4	676	642.9	208.9
377	358.5	116.5	437	415.6	135.0	497	472.7	153.6	557	529.7	172.1	617	586.8	190.7	677	643.9	209.2
378	359.5	116.8	438	416.6	135.3	498	473.6	153.9	558	530.7	172.4	618	587.8	191.0	678	644.8	209.5
379	360.5	117.1	439	417.5	135.7	499	474.6	154.2	559	531.6	172.7	619	588.7	191.3	679	645.8	209.8
380	361.4	117.4	440	418.5	136.0	500	475.5	154.5	560	532.6	173.0	620	589.7	191.6	680	646.7	210.1
381	362.4	117.7	441	419.4	136.3	501	476.5	154.8	561	533.5	173.4	621	590.6	191.9	681	647.7	210.4
382	363.3	118.0	442	420.4	136.6	502	477.4	155.1	562	534.5	173.7	622	591.6	192.2	682	648.6	210.7
383	364.3	118.4	443	421.3	136.9	503	478.4	155.4	563	535.4	174.0	623	592.5	192.5	683	649.6	211.1
384	365.2	118.7	444	422.3	137.2	504	479.3	155.7	564	536.4	174.3	624	593.5	192.8	684	650.5	211.4
385	366.2	119.0	445	423.2	137.5	505	480.3	156.1	565	537.3	174.6	625	594.4	193.1	685	651.5	211.7
386	367.1	119.3	446	424.2	137.8	506	481.2	156.4	566	538.3	174.9	626	595.4	193.4	686	652.4	212.0
387	368.1	119.6	447	425.1	138.1	507	482.2	156.7	567	539.2	175.2	627	596.3	193.8	687	653.4	212.3
388	369.0	119.9	448	426.1	138.4	508	483.1	157.0	568	540.2	175.5	628	597.3	194.1	688	654.3	212.6
389	370.0	120.2	449	427.0	138.7	509	484.1	157.3	569	541.2	175.8	629	598.2	194.4	689	655.3	212.9
390	370.9	120.5	450	428.0	139.1	510	485.0	157.6	570	542.1	176.1	630	599.2	194.7	690	656.2	213.2
391	371.9	120.8	451	428.9	139.4	511	486.0	157.9	571	543.1	176.4	631	600.1	195.0	691	657.2	213.5
392	372.8	121.1	452	429.9	139.7	512	486.9	158.2	572	544.0	176.8	632	601.1	195.3	692	658.1	213.8
393	373.8	121.4	453	430.8	140.0	513	487.9	158.5	573	545.0	177.1	633	602.0	195.6	693	659.1	214.1
394	374.7	121.8	454	431.8	140.3	514	488.8	158.8	574	545.9	177.4	634	603.0	195.9	694	660.0	214.5
395	375.7	122.1	455	432.7	140.6	515	489.8	159.1	575	546.9	177.7	635	603.9	196.2	695	661.0	214.8
396	376.6	122.4	456	433.7	140.9	516	490.7	159.5	576	547.8	178.0	636	604.9	196.5	696	661.9	215.1
397	377.6	122.7	457	434.6	141.2	517	491.7	159.8	577	548.8	178.3	637	605.8	196.8	697	662.9	215.4
398	378.5	123.0	458	435.6	141.5	518	492.6	160.1	578	549.7	178.6	638	606.8	197.2	698	663.8	215.7
399	379.5	123.3	459	436.5	141.8	519	493.6	160.4	579	550.7	178.9	639	607.7	197.5	699	664.8	216.0
400	380.4	123.6	460	437.5	142.1	520	494.5	160.7	580	551.6	179.2	640	608.7	197.8	700	665.7	216.3
401	381.4	123.9	461	438.4	142.5	521	495.5	161.0	581	552.6	179.5	641	609.6	198.1	701	666.7	216.6
402	382.3	124.2	462	439.4	142.8	522	496.5	161.3	582	553.5	179.8	642	610.6	198.4	702	667.6	216.9
403	383.3	124.5	463	440.3	143.1	523	497.4	161.6	583	554.5	180.2	643	611.5	198.7	703	668.6	217.2
404	384.2	124.8	464	441.3	143.4	524	498.4	161.9	584	555.4	180.5	644	612.5	199.0	704	669.5	217.5
405	385.2	125.2	465	442.2	143.7	525	499.3	162.2	585	556.4	180.8	645	613.4	199.3	705	670.5	217.9
406	386.1	125.5	466	443.2	144.0	526	500.3	162.5	586	557.3	181.1	646	614.4	199.6	706	671.4	218.2
407	387.1	125.8	467	444.1	144.3	527	501.2	162.9	587	558.3	181.4	647	615.3	199.9	707	672.4	218.5
408	388.0	126.1	468	445.1	144.6	528	502.2	163.2	588	559.2	181.7	648	616.3	200.2	708	673.3	218.8
409	389.0	126.4	469	446.0	144.9	529	503.1	163.5	589	560.2	182.0	649	617.2	200.6	709	674.3	219.1
410	389.9	126.7	470	447.0	145.2	530	504.1	163.8	590	561.1	182.3	650	618.2	200.9	710	675.3	219.4
411	390.9	127.0	471	447.9	145.5	531	505.0	164.1	591	562.1	182.6	651	619.1	201.2	711	676.2	219.7
412	391.8	127.3	472	448.9	145.9	532	506.0	164.4	592	563.0	182.9	652	620.1	201.5	712	677.2	220.0
413	392.8	127.6	473	449.8	146.2	533	506.9	164.7	593	564.0	183.2	653	621.0	201.8	713	678.1	220.3
414	393.7	127.9	474	450.8	146.5	534	507.9	165.0	594	564.9	183.6	654	622.0	202.1	714	679.1	220.6
415	394.7	128.2	475	451.8	146.8	535	508.8	165.3	595	565.9	183.9	655	622.9	202.4	715	680.0	220.9
416	395.6	128.6	476	452.7	147.1	536	509.8	165.6	596	566.8	184.2	656	623.9	202.7	716	681.0	221.3
417	396.6	128.9	477	453.7	147.4	537	510.7	165.9	597	567.8	184.5	657	624.8	203.0	717	681.9	221.6
418	397.5	129.2	478	454.6	147.7	538	511.7	166.3	598	568.7	184.8	658	625.8	203.3	718	682.9	221.9
419	398.5	129.5	479	455.6	148.0	539	512.6	166.6	599	569.7	185.1	659	626.7	203.6	719	683.8	222.2
420	399.4	129.8	480	456.5	148.3	540	513.6	166.9	600	570.6	185.4	660	627.7	204.0	720	684.8	222.5

D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI
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D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	0.9	0.3	61	57.7	19.9	121	114.4	39.4	181	171.1	58.9	241	227.9	78.5	301	284.6	98.0
2	1.9	0.7	62	58.6	20.2	122	115.4	39.7	182	172.1	59.3	242	228.8	78.8	302	285.5	98.3
3	2.8	1.0	63	59.6	20.5	123	116.3	40.0	183	173.0	59.6	243	229.8	79.1	303	286.5	98.6
4	3.8	1.3	64	60.5	20.8	124	117.2	40.4	184	174.0	59.9	244	230.7	79.4	304	287.4	99.0
5	4.7	1.6	65	61.5	21.2	125	118.2	40.7	185	174.9	60.2	245	231.7	79.8	305	288.4	99.3
6	5.7	2.0	66	62.4	21.5	126	119.1	41.0	186	175.9	60.6	246	232.6	80.1	306	289.3	99.6
7	6.6	2.3	67	63.3	21.8	127	120.1	41.3	187	176.8	60.9	247	233.5	80.4	307	290.3	99.9
8	7.6	2.6	68	64.3	22.1	128	121.0	41.7	188	177.8	61.2	248	234.5	80.7	308	291.2	100.3
9	8.5	2.9	69	65.2	22.5	129	122.0	42.0	189	178.7	61.5	249	235.4	81.1	309	292.2	100.6
10	9.5	3.3	70	66.2	22.8	130	122.9	42.3	190	179.6	61.9	250	236.4	81.4	310	293.1	100.9
11	10.4	3.6	71	67.1	23.1	131	123.9	42.6	191	180.6	62.2	251	237.3	81.7	311	294.1	101.3
12	11.3	3.9	72	68.1	23.4	132	124.8	43.0	192	181.5	62.5	252	238.3	82.0	312	295.0	101.6
13	12.3	4.2	73	69.0	23.8	133	125.8	43.3	193	182.5	62.8	253	239.2	82.4	313	295.9	101.9
14	13.2	4.6	74	70.0	24.1	134	126.7	43.6	194	183.4	63.2	254	240.2	82.7	314	296.9	102.2
15	14.2	4.9	75	70.9	24.4	135	127.6	44.0	195	184.4	63.5	255	241.1	83.0	315	297.8	102.6
16	15.1	5.2	76	71.9	24.7	136	128.6	44.3	196	185.3	63.8	256	242.1	83.3	316	298.8	102.9
17	16.1	5.5	77	72.8	25.1	137	129.5	44.6	197	186.3	64.1	257	243.0	83.7	317	299.7	103.2
18	17.0	5.9	78	73.8	25.4	138	130.5	44.9	198	187.2	64.5	258	243.9	84.0	318	300.7	103.5
19	18.0	6.2	79	74.7	25.7	139	131.4	45.3	199	188.2	64.8	259	244.9	84.3	319	301.6	103.9
20	18.9	6.5	80	75.6	26.0	140	132.4	45.6	200	189.1	65.1	260	245.8	84.6	320	302.6	104.2
21	19.9	6.8	81	76.6	26.4	141	133.3	45.9	201	190.0	65.4	261	246.8	85.0	321	303.5	104.5
22	20.8	7.2	82	77.5	26.7	142	134.3	46.2	202	191.0	65.8	262	247.7	85.3	322	304.5	104.8
23	21.7	7.5	83	78.5	27.0	143	135.2	46.6	203	191.9	66.1	263	248.7	85.6	323	305.4	105.2
24	22.7	7.8	84	79.4	27.3	144	136.2	46.9	204	192.9	66.4	264	249.6	85.9	324	306.3	105.5
25	23.6	8.1	85	80.4	27.7	145	137.1	47.2	205	193.8	66.7	265	250.6	86.3	325	307.3	105.8
26	24.6	8.5	86	81.3	28.0	146	138.0	47.5	206	194.8	67.1	266	251.5	86.6	326	308.2	106.1
27	25.5	8.8	87	82.3	28.3	147	139.0	47.9	207	195.7	67.4	267	252.5	86.9	327	309.2	106.5
28	26.5	9.1	88	83.2	28.6	148	139.9	48.2	208	196.7	67.7	268	253.4	87.3	328	310.1	106.8
29	27.4	9.4	89	84.2	29.0	149	140.9	48.5	209	197.6	68.0	269	254.3	87.6	329	311.1	107.1
30	28.4	9.8	90	85.1	29.3	150	141.8	48.8	210	198.6	68.4	270	255.3	87.9	330	312.0	107.4
31	29.3	10.1	91	86.0	29.6	151	142.8	49.2	211	199.5	68.7	271	256.2	88.2	331	313.0	107.8
32	30.3	10.4	92	87.0	30.0	152	143.7	49.5	212	200.5	69.0	272	257.2	88.6	332	313.9	108.1
33	31.2	10.7	93	87.9	30.3	153	144.7	49.8	213	201.4	69.3	273	258.1	88.9	333	314.9	108.4
34	32.1	11.1	94	88.9	30.6	154	145.6	50.1	214	202.3	69.7	274	259.1	89.2	334	315.8	108.7
35	33.1	11.4	95	89.9	30.9	155	146.6	50.5	215	203.3	70.0	275	260.0	89.5	335	316.7	109.1
36	34.0	11.7	96	90.8	31.3	156	147.5	50.8	216	204.2	70.3	276	261.0	89.9	336	317.7	109.4
37	35.0	12.0	97	91.7	31.6	157	148.4	51.1	217	205.2	70.6	277	261.9	90.2	337	318.6	109.7
38	35.9	12.4	98	92.7	31.9	158	149.4	51.4	218	206.1	71.0	278	262.9	90.5	338	319.6	110.0
39	36.9	12.7	99	93.6	32.2	159	150.3	51.8	219	207.1	71.3	279	263.8	90.8	339	320.5	110.4
40	37.8	13.0	100	94.6	32.6	160	151.3	52.1	220	208.0	71.6	280	264.7	91.2	340	321.5	110.7
41	38.8	13.3	101	95.5	32.9	161	152.2	52.4	221	209.0	72.0	281	265.7	91.5	341	322.4	111.0
42	39.7	13.7	102	96.4	33.2	162	153.2	52.7	222	209.9	72.3	282	266.6	91.8	342	323.4	111.3
43	40.7	14.0	103	97.4	33.5	163	154.1	53.1	223	210.9	72.6	283	267.6	92.1	343	324.3	111.7
44	41.6	14.3	104	98.3	33.9	164	155.1	53.4	224	211.8	72.9	284	268.5	92.5	344	325.3	112.0
45	42.5	14.7	105	99.3	34.2	165	156.0	53.7	225	212.7	73.3	285	269.5	92.8	345	326.2	112.3
46	43.5	15.0	106	100.2	34.5	166	157.0	54.0	226	213.7	73.6	286	270.4	93.1	346	327.1	112.6
47	44.4	15.3	107	101.2	34.8	167	157.9	54.4	227	214.6	73.9	287	271.4	93.4	347	328.1	113.0
48	45.4	15.6	108	102.1	35.2	168	158.8	54.7	228	215.6	74.2	288	272.3	93.8	348	329.0	113.3
49	46.3	16.0	109	103.1	35.5	169	159.8	55.0	229	216.5	74.6	289	273.3	94.1	349	330.0	113.6
50	47.3	16.3	110	104.0	35.8	170	160.7	55.3	230	217.5	74.9	290	274.2	94.4	350	330.9	113.9
51	48.2	16.6	111	105.0	36.1	171	161.7	55.7	231	218.4	75.2	291	275.1	94.7	351	331.9	114.3
52	49.2	16.9	112	105.9	36.5	172	162.6	56.0	232	219.4	75.5	292	276.1	95.1	352	332.8	114.6
53	50.1	17.3	113	106.8	36.8	173	163.6	56.3	233	220.3	75.9	293	277.0	95.4	353	333.8	114.9
54	51.1	17.6	114	107.8	37.1	174	164.5	56.6	234	221.3	76.2	294	278.0	95.7	354	334.7	115.3
55	52.0	17.9	115	108.7	37.4	175	165.5	57.0	235	222.2	76.5	295	278.9	96.0	355	335.7	115.6
56	52.9	18.2	116	109.7	37.8	176	166.4	57.3	236	223.1	76.8	296	279.9	96.4	356	336.6	115.9
57	53.9	18.6	117	110.6	38.1	177	167.4	57.6	237	224.1	77.2	297	280.8	96.7	357	337.6	116.2
58	54.8	18.9	118	111.6	38.4	178	168.3	58.0	238	225.0	77.5	298	281.8	97.0	358	338.5	116.6
59	55.8	19.2	119	112.5	38.7	179	169.2	58.3	239	226.0	77.8	299	282.7	97.3	359	339.4	116.9
60	56.7	19.5	120	113.5	39.1	180	170.2	58.6	240	226.9	78.1	300	283.7	97.7	360	340.4	117.2
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep
361	341.3	117.5	421	398.1	137.1	481	454.8	156.6	541	511.5	176.1	601	568.3	195.7	661	625.0	215.2
362	342.3	117.9	422	399.0	137.4	482	455.7	156.9	542	512.5	176.5	602	569.2	196.0	662	625.9	215.5
363	343.2	118.2	423	400.0	137.7	483	456.7	157.2	543	513.4	176.8	603	570.1	196.3	663	626.9	215.9
364	344.2	118.5	424	400.9	138.0	484	457.6	157.6	544	514.4	177.1	604	571.1	196.6	664	627.8	216.2
365	345.1	118.8	425	401.8	138.4	485	458.6	157.9	545	515.3	177.4	605	572.0	197.0	665	628.8	216.5
366	346.1	119.2	426	402.8	138.7	486	459.5	158.2	546	516.3	177.8	606	573.0	197.3	666	629.7	216.8
367	347.0	119.5	427	403.7	139.0	487	460.5	158.6	547	517.2	178.1	607	573.9	197.6	667	630.7	217.2
368	348.0	119.8	428	404.7	139.3	488	461.4	158.9	548	518.1	178.4	608	574.9	197.9	668	631.6	217.5
369	348.9	120.1	429	405.6	139.7	489	462.4	159.2	549	519.1	178.7	609	575.8	198.3	669	632.6	217.8
370	349.8	120.5	430	406.6	140.0	490	463.3	159.5	550	520.0	179.1	610	576.8	198.6	670	633.5	218.1
371	350.8	120.8	431	407.5	140.3	491	464.2	159.9	551	521.0	179.4	611	577.7	198.9	671	634.4	218.5
372	351.7	121.1	432	408.5	140.6	492	465.2	160.2	552	521.9	179.7	612	578.7	199.2	672	635.4	218.8
373	352.7	121.4	433	409.4	141.0	493	466.1	160.5	553	522.9	180.0	613	579.6	199.6	673	636.3	219.1
374	353.6	121.8	434	410.4	141.3	494	467.1	160.8	554	523.8	180.4	614	580.5	199.9	674	637.3	219.4
375	354.6	122.1	435	411.3	141.6	495	468.0	161.2	555	524.8	180.7	615	581.5	200.2	675	638.2	219.8
376	355.5	122.4	436	412.2	141.9	496	469.0	161.5	556	525.7	181.0	616	582.4	200.5	676	639.2	220.1
377	356.5	122.7	437	413.2	142.3	497	469.9	161.8	557	526.7	181.3	617	583.4	200.9	677	640.1	220.4
378	357.4	123.1	438	414.1	142.6	498	470.9	162.1	558	527.6	181.7	618	584.3	201.2	678	641.1	220.7
379	358.4	123.4	439	415.1	142.9	499	471.8	162.5	559	528.5	182.0	619	585.3	201.5	679	642.0	221.1
380	359.3	123.7	440	416.0	143.2	500	472.8	162.8	560	529.5	182.3	620	586.2	201.9	680	643.0	221.4
381	360.2	124.0	441	417.0	143.6	501	473.7	163.1	561	530.4	182.6	621	587.2	202.2	681	643.9	221.7
382	361.2	124.4	442	417.9	143.9	502	474.7	163.4	562	531.4	183.0	622	588.1	202.5	682	644.8	222.0
383	362.1	124.7	443	418.9	144.2	503	475.6	163.8	563	532.3	183.3	623	589.1	202.8	683	645.8	222.4
384	363.1	125.0	444	419.8	144.6	504	476.5	164.1	564	533.3	183.6	624	590.0	203.2	684	646.7	222.7
385	364.0	125.3	445	420.8	144.9	505	477.5	164.4	565	534.2	183.9	625	590.9	203.5	685	647.7	223.0
386	365.0	125.7	446	421.7	145.2	506	478.4	164.7	566	535.2	184.3	626	591.9	203.8	686	648.6	223.3
387	365.9	126.0	447	422.6	145.5	507	479.4	165.1	567	536.1	184.6	627	592.8	204.1	687	649.6	223.7
388	366.9	126.3	448	423.6	145.9	508	480.3	165.4	568	537.1	184.9	628	593.8	204.5	688	650.5	224.0
389	367.8	126.6	449	424.5	146.2	509	481.3	165.7	569	538.0	185.2	629	594.7	204.8	689	651.5	224.3
390	368.8	127.0	450	425.5	146.5	510	482.2	166.0	570	538.9	185.6	630	595.7	205.1	690	652.4	224.6
391	369.7	127.3	451	426.4	146.8	511	483.2	166.4	571	539.9	185.9	631	596.6	205.4	691	653.4	225.0
392	370.6	127.6	452	427.4	147.2	512	484.1	166.7	572	540.8	186.2	632	597.6	205.8	692	654.3	225.3
393	371.6	127.9	453	428.3	147.5	513	485.1	167.0	573	541.8	186.6	633	598.5	206.1	693	655.2	225.6
394	372.5	128.3	454	429.3	147.8	514	486.0	167.3	574	542.7	186.9	634	599.5	206.4	694	656.2	225.9
395	373.5	128.6	455	430.2	148.1	515	486.9	167.7	575	543.7	187.2	635	600.4	206.7	695	657.1	226.3
396	374.4	128.9	456	431.2	148.5	516	487.9	168.0	576	544.6	187.5	636	601.4	207.1	696	658.1	226.6
397	375.4	129.3	457	432.1	148.8	517	488.8	168.3	577	545.6	187.9	637	602.3	207.4	697	659.0	226.9
398	376.3	129.6	458	433.0	149.1	518	489.8	168.6	578	546.5	188.2	638	603.2	207.7	698	660.0	227.2
399	377.3	129.9	459	434.0	149.4	519	490.7	169.0	579	547.5	188.5	639	604.2	208.0	699	660.9	227.6
400	378.2	130.2	460	434.9	149.8	520	491.7	169.3	580	548.4	188.8	640	605.1	208.4	700	661.9	227.9
401	379.2	130.6	461	435.9	150.1	521	492.6	169.6	581	549.3	189.2	641	606.1	208.7	701	662.8	228.2
402	380.1	130.9	462	436.8	150.4	522	493.6	169.9	582	550.3	189.5	642	607.0	209.0	702	663.8	228.5
403	381.0	131.2	463	437.8	150.7	523	494.5	170.3	583	551.2	189.8	643	608.0	209.3	703	664.7	228.9
404	382.0	131.5	464	438.7	151.1	524	495.5	170.6	584	552.2	190.1	644	608.9	209.7	704	665.6	229.2
405	382.9	131.9	465	439.7	151.4	525	496.4	170.9	585	553.1	190.5	645	609.9	210.0	705	666.6	229.5
406	383.9	132.2	466	440.6	151.7	526	497.3	171.2	586	554.1	190.8	646	610.8	210.3	706	667.5	229.9
407	384.8	132.5	467	441.6	152.0	527	498.3	171.6	587	555.0	191.1	647	611.8	210.6	707	668.5	230.2
408	385.8	132.8	468	442.5	152.4	528	499.2	171.9	588	556.0	191.4	648	612.7	211.0	708	669.4	230.5
409	386.7	133.2	469	443.4	152.7	529	500.2	172.2	589	556.9	191.8	649	613.6	211.3	709	670.4	230.8
410	387.7	133.5	470	444.4	153.0	530	501.1	172.6	590	557.9	192.1	650	614.6	211.6	710	671.3	231.2
411	388.6	133.8	471	445.3	153.3	531	502.1	172.9	591	558.8	192.4	651	615.5	211.9	711	672.3	231.5
412	389.6	134.1	472	446.3	153.7	532	503.0	173.2	592	559.7	192.7	652	616.5	212.3	712	673.2	231.8
413	390.5	134.5	473	447.2	154.0	533	504.0	173.5	593	560.7	193.1	653	617.4	212.6	713	674.2	232.1
414	391.4	134.8	474	448.2	154.3	534	504.9	173.9	594	561.6	193.4	654	618.4	212.9	714	675.1	232.5
415	392.4	135.1	475	449.1	154.6	535	505.9	174.2	595	562.6	193.7	655	619.3	213.2	715	676.0	232.8
416	393.3	135.4	476	450.1	155.0	536	506.8	174.5	596	563.5	194.0	656	620.3	213.6	716	677.0	233.1
417	394.3	135.8	477	451.0	155.3	537	507.7	174.8	597	564.5	194.4	657	621.2	213.9	717	677.9	233.4
418	395.2	136.1	478	452.0	155.6	538	508.7	175.2	598	565.4	194.7	658	622.2	214.2	718	678.9	233.8
419	396.2	136.4	479	452.9	155.9	539	509.6	175.5	599	566.4	195.0	659	623.1	214.5	719	679.8	234.1
420	397.1	136.7	480	453.8	156.3	540	510.6	175.8	600	567.3	195.3	660	624.0	214.9	720	680.8	234.4

D	Dep	Δl	D	Dep	Δl	D	Dep	Δl	D	Dep	Δl	D	Dep	Δl	D	Dep	Δl
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D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	0.9	0.3	61	57.3	20.9	121	113.7	41.4	181	170.1	61.9	241	226.5	82.4	301	282.8	102.9
2	1.9	0.7	62	58.3	21.2	122	114.6	41.7	182	171.0	62.2	242	227.4	82.8	302	283.8	103.3
3	2.8	1.0	63	59.2	21.5	123	115.6	42.1	183	172.0	62.6	243	228.3	83.1	303	284.7	103.6
4	3.8	1.4	64	60.1	21.9	124	116.5	42.4	184	172.9	62.9	244	229.3	83.5	304	285.7	104.0
5	4.7	1.7	65	61.1	22.2	125	117.5	42.8	185	173.8	63.3	245	230.2	83.8	305	286.6	104.3
6	5.6	2.1	66	62.0	22.6	126	118.4	43.1	186	174.8	63.6	246	231.2	84.1	306	287.5	104.7
7	6.6	2.4	67	63.0	22.9	127	119.3	43.4	187	175.7	64.0	247	232.1	84.5	307	288.5	105.0
8	7.5	2.7	68	63.9	23.3	128	120.3	43.8	188	176.7	64.3	248	233.0	84.8	308	289.4	105.3
9	8.5	3.1	69	64.8	23.6	129	121.2	44.1	189	177.6	64.6	249	234.0	85.2	309	290.4	105.7
10	9.4	3.4	70	65.8	23.9	130	122.2	44.5	190	178.5	65.0	250	234.9	85.5	310	291.3	106.0
11	10.3	3.8	71	66.7	24.3	131	123.1	44.8	191	179.5	65.3	251	235.9	85.8	311	292.2	106.4
12	11.3	4.1	72	67.7	24.6	132	124.0	45.1	192	180.4	65.7	252	236.8	86.2	312	293.2	106.7
13	12.2	4.4	73	68.6	25.0	133	125.0	45.5	193	181.4	66.0	253	237.7	86.5	313	294.1	107.1
14	13.2	4.8	74	69.5	25.3	134	125.9	45.8	194	182.3	66.4	254	238.7	86.9	314	295.1	107.4
15	14.1	5.1	75	70.5	25.7	135	126.9	46.2	195	183.2	66.7	255	239.6	87.2	315	296.0	107.7
16	15.0	5.5	76	71.4	26.0	136	127.8	46.5	196	184.2	67.0	256	240.6	87.6	316	296.9	108.1
17	16.0	5.8	77	72.4	26.3	137	128.7	46.9	197	185.1	67.4	257	241.5	87.9	317	297.9	108.4
18	16.9	6.2	78	73.3	26.7	138	129.7	47.2	198	186.1	67.7	258	242.4	88.2	318	298.8	108.8
19	17.9	6.5	79	74.2	27.0	139	130.6	47.5	199	187.0	68.1	259	243.4	88.6	319	299.8	109.1
20	18.8	6.8	80	75.2	27.4	140	131.6	47.9	200	187.9	68.4	260	244.3	88.9	320	300.7	109.4
21	19.7	7.2	81	76.1	27.7	141	132.5	48.2	201	188.9	68.7	261	245.3	89.3	321	301.6	109.8
22	20.7	7.5	82	77.1	28.0	142	133.4	48.6	202	189.8	69.1	262	246.2	89.6	322	302.6	110.1
23	21.6	7.9	83	78.0	28.4	143	134.4	48.9	203	190.8	69.4	263	247.1	90.0	323	303.5	110.5
24	22.6	8.2	84	78.9	28.7	144	135.3	49.3	204	191.7	69.8	264	248.1	90.3	324	304.5	110.8
25	23.5	8.6	85	79.9	29.1	145	136.3	49.6	205	192.6	70.1	265	249.0	90.6	325	305.4	111.2
26	24.4	8.9	86	80.8	29.4	146	137.2	49.9	206	193.6	70.5	266	250.0	91.0	326	306.3	111.5
27	25.4	9.2	87	81.8	29.8	147	138.1	50.3	207	194.5	70.8	267	250.9	91.3	327	307.3	111.8
28	26.3	9.6	88	82.7	30.1	148	139.1	50.6	208	195.5	71.1	268	251.8	91.7	328	308.2	112.2
29	27.3	9.9	89	83.6	30.4	149	140.0	51.0	209	196.4	71.5	269	252.8	92.0	329	309.2	112.5
30	28.2	10.3	90	84.6	30.8	150	141.0	51.3	210	197.3	71.8	270	253.7	92.3	330	310.1	112.9
31	29.1	10.6	91	85.5	31.1	151	141.9	51.6	211	198.3	72.2	271	254.7	92.7	331	311.0	113.2
32	30.1	10.9	92	86.5	31.5	152	142.8	52.0	212	199.2	72.5	272	255.6	93.0	332	312.0	113.6
33	31.0	11.3	93	87.4	31.8	153	143.8	52.3	213	200.2	72.9	273	256.5	93.4	333	312.9	113.9
34	31.9	11.6	94	88.3	32.1	154	144.7	52.7	214	201.1	73.2	274	257.5	93.7	334	313.9	114.2
35	32.9	12.0	95	89.3	32.5	155	145.7	53.0	215	202.0	73.5	275	258.4	94.1	335	314.8	114.6
36	33.8	12.3	96	90.2	32.8	156	146.6	53.4	216	203.0	73.9	276	259.4	94.4	336	315.7	114.9
37	34.8	12.7	97	91.2	33.2	157	147.5	53.7	217	203.9	74.2	277	260.3	94.7	337	316.7	115.3
38	35.7	13.0	98	92.1	33.5	158	148.5	54.0	218	204.9	74.6	278	261.2	95.1	338	317.6	115.6
39	36.6	13.3	99	93.0	33.9	159	149.4	54.4	219	205.8	74.9	279	262.2	95.4	339	318.6	115.9
40	37.6	13.7	100	94.0	34.2	160	150.4	54.7	220	206.7	75.2	280	263.1	95.8	340	319.5	116.3
41	38.5	14.0	101	94.9	34.5	161	151.3	55.1	221	207.7	75.6	281	264.1	96.1	341	320.4	116.6
42	39.5	14.4	102	95.8	34.9	162	152.2	55.4	222	208.6	75.9	282	265.0	96.4	342	321.4	117.0
43	40.4	14.7	103	96.8	35.2	163	153.2	55.7	223	209.6	76.3	283	265.9	96.8	343	322.3	117.3
44	41.3	15.0	104	97.7	35.6	164	154.1	56.1	224	210.5	76.6	284	266.9	97.1	344	323.3	117.7
45	42.3	15.4	105	98.7	35.9	165	155.0	56.4	225	211.4	77.0	285	267.8	97.5	345	324.2	118.0
46	43.2	15.7	106	99.6	36.3	166	156.0	56.8	226	212.4	77.3	286	268.8	97.8	346	325.1	118.3
47	44.2	16.1	107	100.5	36.6	167	156.9	57.1	227	213.3	77.6	287	269.7	98.2	347	326.1	118.7
48	45.1	16.4	108	101.5	36.9	168	157.9	57.5	228	214.3	78.0	288	270.6	98.5	348	327.0	119.0
49	46.0	16.8	109	102.4	37.3	169	158.8	57.8	229	215.2	78.3	289	271.6	98.8	349	328.0	119.4
50	47.0	17.1	110	103.4	37.6	170	159.7	58.1	230	216.1	78.7	290	272.5	99.2	350	328.9	119.7
51	47.9	17.4	111	104.3	38.0	171	160.7	58.5	231	217.1	79.0	291	273.5	99.5	351	329.8	120.0
52	48.9	17.8	112	105.2	38.3	172	161.6	58.8	232	218.0	79.3	292	274.4	99.9	352	330.8	120.4
53	49.8	18.1	113	106.2	38.6	173	162.6	59.2	233	218.9	79.7	293	275.3	100.2	353	331.7	120.7
54	50.7	18.5	114	107.1	39.0	174	163.5	59.5	234	219.9	80.0	294	276.3	100.6	354	332.7	121.1
55	51.7	18.8	115	108.1	39.3	175	164.4	59.9	235	220.8	80.4	295	277.2	100.9	355	333.6	121.4
56	52.6	19.2	116	109.0	39.7	176	165.4	60.2	236	221.8	80.7	296	278.1	101.2	356	334.5	121.8
57	53.6	19.5	117	109.9	40.0	177	166.3	60.5	237	222.7	81.1	297	279.1	101.6	357	335.5	122.1
58	54.5	19.8	118	110.9	40.4	178	167.3	60.9	238	223.6	81.4	298	280.0	101.9	358	336.4	122.4
59	55.4	20.2	119	111.8	40.7	179	168.2	61.2	239	224.6	81.7	299	281.0	102.3	359	337.3	122.8
60	56.4	20.5	120	112.8	41.0	180	169.1	61.6	240	225.5	82.1	300	281.9	102.6	360	338.3	123.1
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	339.2	123.5	421	395.6	144.0	481	452.0	164.5	541	508.4	185.0	601	564.8	205.6	661	621.1	226.1
362	340.2	123.8	422	396.6	144.3	482	452.9	164.9	542	509.3	185.4	602	565.7	205.9	662	622.1	226.4
363	341.1	124.2	423	397.5	144.7	483	453.9	165.2	543	510.3	185.7	603	566.6	206.2	663	623.0	226.8
364	342.0	124.5	424	398.4	145.0	484	454.8	165.5	544	511.2	186.1	604	567.6	206.6	664	624.0	227.1
365	343.0	124.8	425	399.4	145.4	485	455.8	165.9	545	512.1	186.4	605	568.5	206.9	665	624.9	227.4
366	343.9	125.2	426	400.3	145.7	486	456.7	166.2	546	513.1	186.7	606	569.5	207.3	666	625.8	227.8
367	344.9	125.5	427	401.2	146.0	487	457.6	166.6	547	514.0	187.1	607	570.4	207.6	667	626.8	228.1
368	345.8	125.9	428	402.2	146.4	488	458.6	166.9	548	515.0	187.4	608	571.3	207.9	668	627.7	228.5
369	346.7	126.2	429	403.1	146.7	489	459.5	167.2	549	515.9	187.8	609	572.3	208.3	669	628.7	228.8
370	347.7	126.5	430	404.1	147.1	490	460.4	167.6	550	516.8	188.1	610	573.2	208.6	670	629.6	229.2
371	348.6	126.9	431	405.0	147.4	491	461.4	167.9	551	517.8	188.5	611	574.2	209.0	671	630.5	229.5
372	349.6	127.2	432	405.9	147.8	492	462.3	168.3	552	518.7	188.8	612	575.1	209.3	672	631.5	229.8
373	350.5	127.6	433	406.9	148.1	493	463.3	168.6	553	519.7	189.1	613	576.0	209.7	673	632.4	230.2
374	351.4	127.9	434	407.8	148.4	494	464.2	169.0	554	520.6	189.5	614	577.0	210.0	674	633.4	230.5
375	352.4	128.3	435	408.8	148.8	495	465.1	169.3	555	521.5	189.8	615	577.9	210.3	675	634.3	230.9
376	353.3	128.6	436	409.7	149.1	496	466.1	169.6	556	522.5	190.2	616	578.9	210.7	676	635.2	231.2
377	354.3	128.9	437	410.6	149.5	497	467.0	170.0	557	523.4	190.5	617	579.8	211.0	677	636.2	231.5
378	355.2	129.3	438	411.6	149.8	498	468.0	170.3	558	524.3	190.8	618	580.7	211.4	678	637.1	231.9
379	356.1	129.6	439	412.5	150.1	499	468.9	170.7	559	525.3	191.2	619	581.7	211.7	679	638.1	232.2
380	357.1	130.0	440	413.5	150.5	500	469.8	171.0	560	526.2	191.5	620	582.6	212.1	680	639.0	232.6
381	358.0	130.3	441	414.4	150.8	501	470.8	171.4	561	527.2	191.9	621	583.5	212.4	681	639.9	232.9
382	359.0	130.7	442	415.3	151.2	502	471.7	171.7	562	528.1	192.2	622	584.5	212.7	682	640.9	233.3
383	359.9	131.0	443	416.3	151.5	503	472.7	172.0	563	529.0	192.6	623	585.4	213.1	683	641.8	233.6
384	360.8	131.3	444	417.2	151.9	504	473.6	172.4	564	530.0	192.9	624	586.4	213.4	684	642.8	233.9
385	361.8	131.7	445	418.2	152.2	505	474.5	172.7	565	530.9	193.2	625	587.3	213.8	685	643.7	234.3
386	362.7	132.0	446	419.1	152.5	506	475.5	173.1	566	531.9	193.6	626	588.2	214.1	686	644.6	234.6
387	363.7	132.4	447	420.0	152.9	507	476.4	173.4	567	532.8	193.9	627	589.2	214.4	687	645.6	235.0
388	364.6	132.7	448	421.0	153.2	508	477.4	173.7	568	533.7	194.3	628	590.1	214.8	688	646.5	235.3
389	365.5	133.0	449	421.9	153.6	509	478.3	174.1	569	534.7	194.6	629	591.1	215.1	689	647.4	235.7
390	366.5	133.4	450	422.9	153.9	510	479.2	174.4	570	535.6	195.0	630	592.0	215.5	690	648.4	236.0
391	367.4	133.7	451	423.8	154.3	511	480.2	174.8	571	536.6	195.3	631	592.9	215.8	691	649.3	236.3
392	368.4	134.1	452	424.7	154.6	512	481.1	175.1	572	537.5	195.6	632	593.9	216.2	692	650.3	236.7
393	369.3	134.4	453	425.7	154.9	513	482.1	175.5	573	538.4	196.0	633	594.8	216.5	693	651.2	237.0
394	370.2	134.8	454	426.6	155.3	514	483.0	175.8	574	539.4	196.3	634	595.8	216.8	694	652.1	237.4
395	371.2	135.1	455	427.6	155.6	515	483.9	176.1	575	540.3	196.7	635	596.7	217.2	695	653.1	237.7
396	372.1	135.4	456	428.5	156.0	516	484.9	176.5	576	541.3	197.0	636	597.6	217.5	696	654.0	238.0
397	373.1	135.8	457	429.4	156.3	517	485.8	176.8	577	542.2	197.3	637	598.6	217.9	697	655.0	238.4
398	374.0	136.1	458	430.4	156.6	518	486.8	177.2	578	543.1	197.7	638	599.5	218.2	698	655.9	238.7
399	374.9	136.5	459	431.3	157.0	519	487.7	177.5	579	544.1	198.0	639	600.5	218.6	699	656.8	239.1
400	375.9	136.8	460	432.3	157.3	520	488.6	177.9	580	545.0	198.4	640	601.4	218.9	700	657.8	239.4
401	376.8	137.2	461	433.2	157.7	521	489.6	178.2	581	546.0	198.7	641	602.3	219.2	701	658.7	239.8
402	377.8	137.5	462	434.1	158.0	522	490.5	178.5	582	546.9	199.1	642	603.3	219.6	702	659.7	240.1
403	378.7	137.8	463	435.1	158.4	523	491.5	178.9	583	547.8	199.4	643	604.2	219.9	703	660.6	240.4
404	379.6	138.2	464	436.0	158.7	524	492.4	179.2	584	548.8	199.7	644	605.2	220.3	704	661.5	240.8
405	380.6	138.5	465	437.0	159.0	525	493.3	179.6	585	549.7	200.1	645	606.1	220.6	705	662.5	241.1
406	381.5	138.9	466	437.9	159.4	526	494.3	179.9	586	550.7	200.4	646	607.0	220.9	706	663.4	241.5
407	382.5	139.2	467	438.8	159.7	527	495.2	180.2	587	551.6	200.8	647	608.0	221.3	707	664.4	241.8
408	383.4	139.5	468	439.8	160.1	528	496.2	180.6	588	552.5	201.1	648	608.9	221.6	708	665.3	242.2
409	384.3	139.9	469	440.7	160.4	529	497.1	180.9	589	553.5	201.4	649	609.9	222.0	709	666.2	242.5
410	385.3	140.2	470	441.7	160.7	530	498.0	181.3	590	554.4	201.8	650	610.8	222.3	710	667.2	242.8
411	386.2	140.6	471	442.6	161.1	531	499.0	181.6	591	555.4	202.1	651	611.7	222.7	711	668.1	243.2
412	387.2	140.9	472	443.5	161.4	532	499.9	182.0	592	556.3	202.5	652	612.7	223.0	712	669.1	243.5
413	388.1	141.3	473	444.5	161.8	533	500.9	182.3	593	557.2	202.8	653	613.6	223.3	713	670.0	243.9
414	389.0	141.6	474	445.4	162.1	534	501.8	182.6	594	558.2	203.2	654	614.6	223.7	714	670.9	244.2
415	390.0	141.9	475	446.4	162.5	535	502.7	183.0	595	559.1	203.5	655	615.5	224.0	715	671.9	244.5
416	390.9	142.3	476	447.3	162.8	536	503.7	183.3	596	560.1	203.8	656	616.4	224.4	716	672.8	244.9
417	391.9	142.6	477	448.2	163.1	537	504.6	183.7	597	561.0	204.2	657	617.4	224.7	717	673.8	245.2
418	392.8	143.0	478	449.2	163.5	538	505.6	184.0	598	561.9	204.5	658	618.3	225.0	718	674.7	245.6
419	393.7	143.4	479	450.1	163.8	539	506.5	184.3	599	562.9	204.9	659	619.3	225.4	719	675.6	245.9
420	394.7	143.8	480	451.1	164.2	540	507.4	184.7	600	563.8	205.2	660	620.2	225.7	720	676.6	246.3
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep
1	0.9	0.4	61	56.9	21.9	121	113.0	43.4	181	169.0	64.9	241	225.0	86.4	301	281.0	107.9
2	1.9	0.7	62	57.9	22.2	122	113.9	43.7	182	169.9	65.2	242	225.9	86.7	302	281.9	108.2
3	2.8	1.1	63	58.8	22.6	123	114.8	44.1	183	170.8	65.6	243	226.9	87.1	303	282.9	108.6
4	3.7	1.4	64	59.7	22.9	124	115.8	44.4	184	171.8	65.9	244	227.8	87.4	304	283.8	108.9
5	4.7	1.8	65	60.7	23.3	125	116.7	44.8	185	172.7	66.3	245	228.7	87.8	305	284.7	109.3
6	5.6	2.2	66	61.6	23.7	126	117.6	45.2	186	173.6	66.7	246	229.7	88.2	306	285.7	109.7
7	6.5	2.5	67	62.5	24.0	127	118.6	45.5	187	174.6	67.0	247	230.6	88.5	307	286.6	110.0
8	7.5	2.9	68	63.5	24.4	128	119.5	45.9	188	175.5	67.4	248	231.5	88.9	308	287.5	110.4
9	8.4	3.2	69	64.4	24.7	129	120.4	46.2	189	176.4	67.7	249	232.5	89.2	309	288.5	110.7
10	9.3	3.6	70	65.4	25.1	130	121.4	46.6	190	177.4	68.1	250	233.4	89.6	310	289.4	111.1
11	10.3	3.9	71	66.3	25.4	131	122.3	46.9	191	178.3	68.4	251	234.3	90.0	311	290.3	111.5
12	11.2	4.3	72	67.2	25.8	132	123.2	47.3	192	179.2	68.8	252	235.3	90.3	312	291.3	111.8
13	12.1	4.7	73	68.2	26.2	133	124.2	47.7	193	180.2	69.2	253	236.2	90.7	313	292.2	112.2
14	13.1	5.0	74	69.1	26.5	134	125.1	48.0	194	181.1	69.5	254	237.1	91.0	314	293.1	112.5
15	14.0	5.4	75	70.0	26.9	135	126.0	48.4	195	182.0	69.9	255	238.1	91.4	315	294.1	112.9
16	14.9	5.7	76	71.0	27.2	136	127.0	48.7	196	183.0	70.2	256	239.0	91.7	316	295.0	113.2
17	15.9	6.1	77	71.9	27.6	137	127.9	49.1	197	183.9	70.6	257	239.9	92.1	317	295.9	113.6
18	16.8	6.5	78	72.8	28.0	138	128.8	49.5	198	184.8	71.0	258	240.9	92.5	318	296.9	114.0
19	17.7	6.8	79	73.8	28.3	139	129.8	49.8	199	185.8	71.3	259	241.8	92.8	319	297.8	114.3
20	18.7	7.2	80	74.7	28.7	140	130.7	50.2	200	186.7	71.7	260	242.7	93.2	320	298.7	114.7
21	19.6	7.5	81	75.6	29.0	141	131.6	50.5	201	187.6	72.0	261	243.7	93.5	321	299.7	115.0
22	20.5	7.9	82	76.6	29.4	142	132.6	50.9	202	188.6	72.4	262	244.6	93.9	322	300.6	115.4
23	21.5	8.2	83	77.5	29.7	143	133.5	51.2	203	189.5	72.7	263	245.5	94.3	323	301.5	115.8
24	22.4	8.6	84	78.4	30.1	144	134.4	51.6	204	190.5	73.1	264	246.5	94.6	324	302.5	116.1
25	23.3	9.0	85	79.4	30.5	145	135.4	52.0	205	191.4	73.5	265	247.4	95.0	325	303.4	116.5
26	24.3	9.3	86	80.3	30.8	146	136.3	52.3	206	192.3	73.8	266	248.3	95.3	326	304.3	116.8
27	25.2	9.7	87	81.2	31.2	147	137.2	52.7	207	193.3	74.2	267	249.3	95.7	327	305.3	117.2
28	26.1	10.0	88	82.2	31.5	148	138.2	53.0	208	194.2	74.5	268	250.2	96.0	328	306.2	117.5
29	27.1	10.4	89	83.1	31.9	149	139.1	53.4	209	195.1	74.9	269	251.1	96.4	329	307.1	117.9
30	28.0	10.8	90	84.0	32.3	150	140.0	53.8	210	196.1	75.3	270	252.1	96.8	330	308.1	118.3
31	28.9	11.1	91	85.0	32.6	151	141.0	54.1	211	197.0	75.6	271	253.0	97.1	331	309.0	118.6
32	29.9	11.5	92	85.9	33.0	152	141.9	54.5	212	197.9	76.0	272	253.9	97.5	332	309.9	119.0
33	30.8	11.8	93	86.8	33.3	153	142.8	54.8	213	198.9	76.3	273	254.9	97.8	333	310.9	119.3
34	31.7	12.2	94	87.8	33.7	154	143.8	55.2	214	199.8	76.7	274	255.8	98.2	334	311.8	119.7
35	32.7	12.5	95	88.7	34.0	155	144.7	55.5	215	200.7	77.0	275	256.7	98.6	335	312.7	120.1
36	33.6	12.9	96	89.6	34.4	156	145.6	55.9	216	201.7	77.4	276	257.7	98.9	336	313.7	120.4
37	34.5	13.3	97	90.6	34.8	157	146.6	56.3	217	202.6	77.8	277	258.6	99.3	337	314.6	120.8
38	35.5	13.6	98	91.5	35.1	158	147.5	56.6	218	203.5	78.1	278	259.5	99.6	338	315.6	121.1
39	36.4	14.0	99	92.4	35.5	159	148.4	57.0	219	204.5	78.5	279	260.5	100.0	339	316.5	121.5
40	37.3	14.3	100	93.4	35.8	160	149.4	57.3	220	205.4	78.8	280	261.4	100.3	340	317.4	121.8
41	38.3	14.7	101	94.3	36.2	161	150.3	57.7	221	206.3	79.2	281	262.3	100.7	341	318.4	122.2
42	39.2	15.1	102	95.2	36.6	162	151.2	58.1	222	207.3	79.6	282	263.3	101.1	342	319.3	122.6
43	40.1	15.4	103	96.2	36.9	163	152.2	58.4	223	208.2	79.9	283	264.2	101.4	343	320.2	122.9
44	41.1	15.8	104	97.1	37.3	164	153.1	58.8	224	209.1	80.3	284	265.1	101.8	344	321.2	123.3
45	42.0	16.1	105	98.0	37.6	165	154.0	59.1	225	210.1	80.6	285	266.1	102.1	345	322.1	123.6
46	42.9	16.5	106	99.0	38.0	166	155.0	59.5	226	211.0	81.0	286	267.0	102.5	346	323.0	124.0
47	43.9	16.8	107	99.9	38.3	167	155.9	59.8	227	211.9	81.3	287	267.9	102.9	347	324.0	124.4
48	44.8	17.2	108	100.8	38.7	168	156.8	60.2	228	212.9	81.7	288	268.9	103.2	348	324.9	124.7
49	45.7	17.6	109	101.8	39.1	169	157.8	60.6	229	213.8	82.1	289	269.8	103.6	349	325.8	125.1
50	46.7	17.9	110	102.7	39.4	170	158.7	60.9	230	214.7	82.4	290	270.7	103.9	350	326.8	125.4
51	47.6	18.3	111	103.6	39.8	171	159.6	61.3	231	215.7	82.8	291	271.7	104.3	351	327.7	125.8
52	48.5	18.6	112	104.6	40.1	172	160.6	61.6	232	216.6	83.1	292	272.6	104.6	352	328.6	126.1
53	49.5	19.0	113	105.5	40.5	173	161.5	62.0	233	217.5	83.5	293	273.5	105.0	353	329.6	126.5
54	50.4	19.4	114	106.4	40.9	174	162.4	62.4	234	218.5	83.9	294	274.5	105.4	354	330.5	126.9
55	51.3	19.7	115	107.4	41.2	175	163.4	62.7	235	219.4	84.2	295	275.4	105.7	355	331.4	127.2
56	52.3	20.1	116	108.3	41.6	176	164.3	63.1	236	220.3	84.6	296	276.3	106.1	356	332.4	127.6
57	53.2	20.4	117	109.2	41.9	177	165.2	63.4	237	221.3	84.9	297	277.3	106.4	357	333.3	127.9
58	54.1	20.8	118	110.2	42.3	178	166.2	63.8	238	222.2	85.3	298	278.2	106.8	358	334.2	128.3
59	55.1	21.1	119	111.1	42.6	179	167.1	64.1	239	223.1	85.6	299	279.1	107.2	359	335.2	128.7
60	56.0	21.5	120	112.0	43.0	180	168.0	64.5	240	224.1	86.0	300	280.1	107.5	360	336.1	129.0

D	Dep	Δl	D	Dep	Δl	D	Dep	Δl	D	Dep	Δl	D	Dep	Δl	D	Dep	Δl
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D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	337-0	129-4	421	393-0	150-9	481	449-1	172-4	541	505-1	193-9	601	561-1	215-4	661	617-1	236-9
362	338-0	129-7	422	394-0	151-2	482	450-0	172-7	542	506-0	194-2	602	562-0	215-7	662	618-0	237-2
363	338-9	130-1	423	394-9	151-6	483	450-9	173-1	543	506-9	194-6	603	562-9	216-1	663	619-0	237-6
364	339-8	130-4	424	395-8	151-9	484	451-9	173-5	544	507-9	195-0	604	563-9	216-5	664	619-9	238-0
365	340-8	130-8	425	396-8	152-3	485	452-8	173-8	545	508-8	195-3	605	564-8	216-8	665	620-8	238-3
366	341-7	131-2	426	397-7	152-7	486	453-7	174-2	546	509-7	195-7	606	565-7	217-2	666	621-8	238-7
367	342-6	131-5	427	398-6	153-0	487	454-7	174-5	547	510-7	196-0	607	566-7	217-5	667	622-7	239-0
368	343-6	131-9	428	399-6	153-4	488	455-6	174-9	548	511-6	196-4	608	567-6	217-9	668	623-6	239-4
369	344-5	132-2	429	400-5	153-7	489	456-5	175-2	549	512-5	196-7	609	568-6	218-2	669	624-6	239-7
370	345-4	132-6	430	401-4	154-1	490	457-5	175-6	550	513-5	197-1	610	569-5	218-6	670	625-5	240-1
371	346-4	133-0	431	402-4	154-5	491	458-4	176-0	551	514-4	197-5	611	570-4	219-0	671	626-4	240-5
372	347-3	133-3	432	403-3	154-8	492	459-3	176-3	552	515-3	197-8	612	571-4	219-3	672	627-4	240-8
373	348-2	133-7	433	404-2	155-2	493	460-3	176-7	553	516-3	198-2	613	572-3	219-7	673	628-3	241-2
374	349-2	134-0	434	405-2	155-5	494	461-2	177-0	554	517-2	198-5	614	573-2	220-0	674	629-2	241-5
375	350-1	134-4	435	406-1	155-9	495	462-1	177-4	555	518-1	198-9	615	574-2	220-4	675	630-2	241-9
376	351-0	134-7	436	407-0	156-2	496	463-1	177-8	556	519-1	199-3	616	575-1	220-8	676	631-1	242-3
377	352-0	135-1	437	408-0	156-6	497	464-0	178-1	557	520-0	199-6	617	576-0	221-1	677	632-0	242-6
378	352-9	135-5	438	408-9	157-0	498	464-9	178-5	558	520-9	200-0	618	577-0	221-5	678	633-0	243-0
379	353-8	135-8	439	409-8	157-3	499	465-9	178-8	559	521-9	200-3	619	577-9	221-8	679	633-9	243-3
380	354-8	136-2	440	410-8	157-7	500	466-8	179-2	560	522-8	200-7	620	578-8	222-2	680	634-8	243-7
381	355-7	136-5	441	411-7	158-0	501	467-7	179-5	561	523-7	201-0	621	579-8	222-5	681	635-8	244-0
382	356-6	136-9	442	412-6	158-4	502	468-7	179-9	562	524-7	201-4	622	580-7	222-9	682	636-7	244-4
383	357-6	137-3	443	413-6	158-8	503	469-6	180-3	563	525-6	201-8	623	581-6	223-3	683	637-6	244-8
384	358-5	137-6	444	414-5	159-1	504	470-5	180-6	564	526-5	202-1	624	582-6	223-6	684	638-6	245-1
385	359-4	138-0	445	415-4	159-5	505	471-5	181-0	565	527-5	202-5	625	583-5	224-0	685	639-5	245-5
386	360-4	138-3	446	416-4	159-8	506	472-4	181-3	566	528-4	202-8	626	584-4	224-3	686	640-4	245-8
387	361-3	138-7	447	417-3	160-2	507	473-3	181-7	567	529-3	203-2	627	585-4	224-7	687	641-4	246-2
388	362-2	139-0	448	418-2	160-5	508	474-3	182-1	568	530-3	203-6	628	586-3	225-1	688	642-3	246-6
389	363-2	139-4	449	419-2	160-9	509	475-2	182-4	569	531-2	203-9	629	587-2	225-4	689	643-2	246-9
390	364-1	139-8	450	420-1	161-3	510	476-1	182-8	570	532-1	204-3	630	588-2	225-8	690	644-2	247-3
391	365-0	140-1	451	421-0	161-6	511	477-1	183-1	571	533-1	204-6	631	589-1	226-1	691	645-1	247-6
392	366-0	140-5	452	422-0	162-0	512	478-0	183-5	572	534-0	205-0	632	590-0	226-5	692	646-0	248-0
393	366-9	140-8	453	422-9	162-3	513	478-9	183-8	573	534-9	205-3	633	591-0	226-8	693	647-0	248-3
394	367-8	141-2	454	423-8	162-7	514	479-9	184-2	574	535-9	205-7	634	591-9	227-2	694	647-9	248-7
395	368-8	141-6	455	424-8	163-1	515	480-8	184-6	575	536-8	206-1	635	592-8	227-6	695	648-8	249-1
396	369-7	141-9	456	425-7	163-4	516	481-7	184-9	576	537-7	206-4	636	593-8	227-9	696	649-8	249-4
397	370-6	142-3	457	426-6	163-8	517	482-7	185-3	577	538-7	206-8	637	594-7	228-3	697	650-7	249-8
398	371-6	142-6	458	427-6	164-1	518	483-6	185-6	578	539-6	207-1	638	595-6	228-6	698	651-6	250-1
399	372-5	143-0	459	428-5	164-5	519	484-5	186-0	579	540-5	207-5	639	596-6	229-0	699	652-6	250-5
400	373-4	143-3	460	429-4	164-8	520	485-5	186-4	580	541-5	207-9	640	597-5	229-4	700	653-5	250-9
401	374-4	143-7	461	430-4	165-2	521	486-4	186-7	581	542-4	208-2	641	598-4	229-7	701	654-4	251-2
402	375-3	144-1	462	431-3	165-6	522	487-3	187-1	582	543-3	208-6	642	599-4	230-1	702	655-4	251-6
403	376-2	144-4	463	432-2	165-9	523	488-3	187-4	583	544-3	208-9	643	600-3	230-4	703	656-3	251-9
404	377-2	144-8	464	433-2	166-3	524	489-2	187-8	584	545-2	209-3	644	601-2	230-8	704	657-2	252-3
405	378-1	145-1	465	434-1	166-6	525	490-1	188-1	585	546-1	209-6	645	602-2	231-1	705	658-2	252-6
406	379-0	145-5	466	435-0	167-0	526	491-1	188-5	586	547-1	210-0	646	603-1	231-5	706	659-1	253-0
407	380-0	145-9	467	436-0	167-4	527	492-0	188-9	587	548-0	210-4	647	604-0	231-9	707	660-0	253-4
408	380-9	146-2	468	436-9	167-7	528	492-9	189-2	588	548-9	210-7	648	605-0	232-2	708	661-0	253-7
409	381-8	146-6	469	437-8	168-1	529	493-9	189-6	589	549-9	211-1	649	605-9	232-6	709	661-9	254-1
410	382-8	146-9	470	438-8	168-4	530	494-8	189-9	590	550-8	211-4	650	606-8	232-9	710	662-8	254-4
411	383-7	147-3	471	439-7	168-8	531	495-7	190-3	591	551-7	211-8	651	607-8	233-3	711	663-8	254-8
412	384-6	147-6	472	440-6	169-1	532	496-7	190-7	592	552-7	212-2	652	608-7	233-7	712	664-7	255-2
413	385-6	148-0	473	441-6	169-5	533	497-6	191-0	593	553-6	212-5	653	609-6	234-0	713	665-6	255-5
414	386-5	148-4	474	442-5	169-9	534	498-5	191-4	594	554-5	212-9	654	610-6	234-4	714	666-6	255-9
415	387-4	148-7	475	443-5	170-2	535	499-5	191-7	595	555-5	213-2	655	611-5	234-7	715	667-5	256-2
416	388-4	149-1	476	444-4	170-6	536	500-4	192-1	596	556-4	213-6	656	612-4	235-1	716	668-4	256-6
417	389-3	149-4	477	445-3	170-9	537	501-3	192-4	597	557-3	213-9	657	613-4	235-4	717	669-4	256-9
418	390-2	149-8	478	446-3	171-3	538	502-3	192-8	598	558-3	214-3	658	614-3	235-8	718	670-3	257-3
419	391-2	150-2	479	447-2	171-7	539	503-2	193-2	599	559-2	214-7	659	615-2	236-2	719	671-2	257-7
420	392-1	150-5	480	448-1	172-0	540	504-1	193-5	600	560-1	215-0	660	616-2	236-5	720	672-2	258-0

D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI
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D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	0.9	0.4	61	56.6	22.9	121	112.2	45.3	181	167.8	67.8	241	223.5	90.3	301	279.1	112.8
2	1.9	0.7	62	57.5	23.2	122	113.1	45.7	182	168.7	68.2	242	224.4	90.7	302	280.0	113.1
3	2.8	1.1	63	58.4	23.6	123	114.0	46.1	183	169.7	68.6	243	225.3	91.0	303	280.9	113.5
4	3.7	1.5	64	59.3	24.0	124	115.0	46.5	184	170.6	68.9	244	226.2	91.4	304	281.9	113.9
5	4.6	1.9	65	60.3	24.3	125	115.9	46.8	185	171.5	69.3	245	227.2	91.8	305	282.8	114.3
6	5.6	2.2	66	61.2	24.7	126	116.8	47.2	186	172.5	69.7	246	228.1	92.2	306	283.7	114.6
7	6.5	2.6	67	62.1	25.1	127	117.8	47.6	187	173.4	70.1	247	229.0	92.5	307	284.6	115.0
8	7.4	3.0	68	63.0	25.5	128	118.7	47.9	188	174.3	70.4	248	229.9	92.9	308	285.6	115.4
9	8.3	3.4	69	64.0	25.8	129	119.6	48.3	189	175.2	70.8	249	230.9	93.3	309	286.5	115.8
10	9.3	3.7	70	64.9	26.2	130	120.5	48.7	190	176.2	71.2	250	231.8	93.7	310	287.4	116.1
11	10.2	4.1	71	65.8	26.6	131	121.5	49.1	191	177.1	71.5	251	232.7	94.0	311	288.4	116.5
12	11.1	4.5	72	66.8	27.0	132	122.4	49.4	192	178.0	71.9	252	233.7	94.4	312	289.3	116.9
13	12.1	4.9	73	67.7	27.3	133	123.3	49.8	193	178.9	72.3	253	234.6	94.8	313	290.2	117.3
14	13.0	5.2	74	68.6	27.7	134	124.2	50.2	194	179.9	72.7	254	235.5	95.2	314	291.1	117.6
15	13.9	5.6	75	69.5	28.1	135	125.2	50.6	195	180.8	73.0	255	236.4	95.5	315	292.1	118.0
16	14.8	6.0	76	70.5	28.5	136	126.1	50.9	196	181.7	73.4	256	237.4	95.9	316	293.0	118.4
17	15.8	6.4	77	71.4	28.8	137	127.0	51.3	197	182.7	73.8	257	238.3	96.3	317	293.9	118.8
18	16.7	6.7	78	72.3	29.2	138	128.0	51.7	198	183.6	74.2	258	239.2	96.6	318	294.8	119.1
19	17.6	7.1	79	73.2	29.6	139	128.9	52.1	199	184.5	74.5	259	240.1	97.0	319	295.8	119.5
20	18.5	7.5	80	74.2	30.0	140	129.8	52.4	200	185.4	74.9	260	241.1	97.4	320	296.7	119.9
21	19.5	7.9	81	75.1	30.3	141	130.7	52.8	201	186.4	75.3	261	242.0	97.8	321	297.6	120.2
22	20.4	8.2	82	76.0	30.7	142	131.7	53.2	202	187.3	75.7	262	242.9	98.1	322	298.6	120.6
23	21.3	8.6	83	77.0	31.1	143	132.6	53.6	203	188.2	76.0	263	243.8	98.5	323	299.5	121.0
24	22.3	9.0	84	77.9	31.5	144	133.5	53.9	204	189.1	76.4	264	244.8	98.9	324	300.4	121.4
25	23.2	9.4	85	78.8	31.8	145	134.4	54.3	205	190.1	76.8	265	245.7	99.3	325	301.3	121.7
26	24.1	9.7	86	79.7	32.2	146	135.4	54.7	206	191.0	77.2	266	246.6	99.6	326	302.3	122.1
27	25.0	10.1	87	80.7	32.6	147	136.3	55.1	207	191.9	77.5	267	247.6	100.0	327	303.2	122.5
28	26.0	10.5	88	81.6	33.0	148	137.2	55.4	208	192.9	77.9	268	248.5	100.4	328	304.1	122.9
29	26.9	10.9	89	82.5	33.3	149	138.2	55.8	209	193.8	78.3	269	249.4	100.8	329	305.0	123.2
30	27.8	11.2	90	83.4	33.7	150	139.1	56.2	210	194.7	78.7	270	250.3	101.1	330	306.0	123.6
31	28.7	11.6	91	84.4	34.1	151	140.0	56.6	211	195.6	79.0	271	251.3	101.5	331	306.9	124.0
32	29.7	12.0	92	85.3	34.5	152	140.9	56.9	212	196.6	79.4	272	252.2	101.9	332	307.8	124.4
33	30.6	12.4	93	86.2	34.8	153	141.9	57.3	213	197.5	79.8	273	253.1	102.3	333	308.8	124.7
34	31.5	12.7	94	87.2	35.2	154	142.8	57.7	214	198.4	80.2	274	254.0	102.6	334	309.7	125.1
35	32.5	13.1	95	88.1	35.6	155	143.7	58.1	215	199.3	80.5	275	255.0	103.0	335	310.6	125.5
36	33.4	13.5	96	89.0	36.0	156	144.6	58.4	216	200.3	80.9	276	255.9	103.4	336	311.5	125.9
37	34.3	13.9	97	89.9	36.3	157	145.6	58.8	217	201.2	81.3	277	256.8	103.8	337	312.5	126.2
38	35.2	14.2	98	90.9	36.7	158	146.5	59.2	218	202.1	81.7	278	257.8	104.1	338	313.4	126.6
39	36.2	14.6	99	91.8	37.1	159	147.4	59.6	219	203.1	82.0	279	258.7	104.5	339	314.3	127.0
40	37.1	15.0	100	92.7	37.5	160	148.3	59.9	220	204.0	82.4	280	259.6	104.9	340	315.2	127.4
41	38.0	15.4	101	93.6	37.8	161	149.3	60.3	221	204.9	82.8	281	260.5	105.3	341	316.2	127.7
42	38.9	15.7	102	94.6	38.2	162	150.2	60.7	222	205.8	83.2	282	261.5	105.6	342	317.1	128.1
43	39.9	16.1	103	95.5	38.6	163	151.1	61.1	223	206.8	83.5	283	262.4	106.0	343	318.0	128.5
44	40.8	16.5	104	96.4	39.0	164	152.1	61.4	224	207.7	83.9	284	263.3	106.4	344	319.0	128.9
45	41.7	16.9	105	97.4	39.3	165	153.0	61.8	225	208.6	84.3	285	264.2	106.8	345	319.9	129.2
46	42.7	17.2	106	98.3	39.7	166	153.9	62.2	226	209.5	84.7	286	265.2	107.1	346	320.8	129.6
47	43.6	17.6	107	99.2	40.1	167	154.8	62.6	227	210.5	85.0	287	266.1	107.5	347	321.7	130.0
48	44.5	18.0	108	100.1	40.5	168	155.8	62.9	228	211.4	85.4	288	267.0	107.9	348	322.7	130.4
49	45.4	18.4	109	101.1	40.8	169	156.7	63.3	229	212.3	85.8	289	268.0	108.3	349	323.6	130.7
50	46.4	18.7	110	102.0	41.2	170	157.6	63.7	230	213.3	86.2	290	268.9	108.6	350	324.5	131.1
51	47.3	19.1	111	102.9	41.6	171	158.5	64.1	231	214.2	86.5	291	269.8	109.0	351	325.4	131.5
52	48.2	19.5	112	103.8	42.0	172	159.5	64.4	232	215.1	86.9	292	270.7	109.4	352	326.4	131.9
53	49.1	19.9	113	104.8	42.3	173	160.4	64.8	233	216.0	87.3	293	271.7	109.8	353	327.3	132.2
54	50.1	20.2	114	105.7	42.7	174	161.3	65.2	234	217.0	87.7	294	272.6	110.1	354	328.2	132.6
55	51.0	20.6	115	106.6	43.1	175	162.3	65.6	235	217.9	88.0	295	273.5	110.5	355	329.2	133.0
56	51.9	21.0	116	107.6	43.5	176	163.2	65.9	236	218.8	88.4	296	274.4	110.9	356	330.1	133.4
57	52.8	21.4	117	108.5	43.8	177	164.1	66.3	237	219.7	88.8	297	275.4	111.3	357	331.0	133.7
58	53.8	21.7	118	109.4	44.2	178	165.0	66.7	238	220.7	89.2	298	276.3	111.6	358	332.0	134.1
59	54.7	22.1	119	110.3	44.6	179	166.0	67.1	239	221.6	89.5	299	277.2	112.0	359	332.9	134.5
60	55.6	22.5	120	111.3	45.0	180	166.9	67.4	240	222.5	89.9	300	278.2	112.4	360	333.8	134.9
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	0.9	0.4	61	56.2	23.8	121	111.4	47.3	181	166.6	70.7	241	221.8	94.2	301	277.1	117.6
2	1.8	0.8	62	57.1	24.2	122	112.3	47.7	182	167.5	71.1	242	222.8	94.6	302	278.0	118.0
3	2.8	1.2	63	58.0	24.6	123	113.2	48.1	183	168.5	71.5	243	223.7	94.9	303	278.9	118.4
4	3.7	1.6	64	58.9	25.0	124	114.1	48.5	184	169.4	71.9	244	224.6	95.3	304	279.8	118.8
5	4.6	2.0	65	59.8	25.4	125	115.1	48.8	185	170.3	72.3	245	225.5	95.7	305	280.8	119.2
6	5.5	2.3	66	60.8	25.8	126	116.0	49.2	186	171.2	72.7	246	226.4	96.1	306	281.7	119.6
7	6.4	2.7	67	61.7	26.2	127	116.9	49.6	187	172.1	73.1	247	227.4	96.5	307	282.6	120.0
8	7.4	3.1	68	62.6	26.6	128	117.8	50.0	188	173.1	73.5	248	228.3	96.9	308	283.5	120.3
9	8.3	3.5	69	63.5	27.0	129	118.7	50.4	189	174.0	73.8	249	229.2	97.3	309	284.4	120.7
10	9.2	3.9	70	64.4	27.4	130	119.7	50.8	190	174.9	74.2	250	230.1	97.7	310	285.4	121.1
11	10.1	4.3	71	65.4	27.7	131	120.6	51.2	191	175.8	74.6	251	231.0	98.1	311	286.3	121.5
12	11.0	4.7	72	66.3	28.1	132	121.5	51.6	192	176.7	75.0	252	232.0	98.5	312	287.2	121.9
13	12.0	5.1	73	67.2	28.5	133	122.4	52.0	193	177.7	75.4	253	232.9	98.9	313	288.1	122.3
14	12.9	5.5	74	68.1	28.9	134	123.3	52.4	194	178.6	75.8	254	233.8	99.2	314	289.0	122.7
15	13.8	5.9	75	69.0	29.3	135	124.3	52.7	195	179.5	76.2	255	234.7	99.6	315	290.0	123.1
16	14.7	6.3	76	70.0	29.7	136	125.2	53.1	196	180.4	76.6	256	235.6	100.0	316	290.9	123.5
17	15.6	6.6	77	70.9	30.1	137	126.1	53.5	197	181.3	77.0	257	236.6	100.4	317	291.8	123.9
18	16.6	7.0	78	71.8	30.5	138	127.0	53.9	198	182.3	77.4	258	237.5	100.8	318	292.7	124.3
19	17.5	7.4	79	72.7	30.9	139	128.0	54.3	199	183.2	77.8	259	238.4	101.2	319	293.6	124.6
20	18.4	7.8	80	73.6	31.3	140	128.9	54.7	200	184.1	78.1	260	239.3	101.6	320	294.6	125.0
21	19.3	8.2	81	74.6	31.6	141	129.8	55.1	201	185.0	78.5	261	240.3	102.0	321	295.5	125.4
22	20.3	8.6	82	75.5	32.0	142	130.7	55.5	202	185.9	78.9	262	241.2	102.4	322	296.4	125.8
23	21.2	9.0	83	76.4	32.4	143	131.6	55.9	203	186.9	79.3	263	242.1	102.8	323	297.3	126.2
24	22.1	9.4	84	77.3	32.8	144	132.6	56.3	204	187.8	79.7	264	243.0	103.2	324	298.2	126.6
25	23.0	9.8	85	78.2	33.2	145	133.5	56.7	205	188.7	80.1	265	243.9	103.5	325	299.2	127.0
26	23.9	10.2	86	79.2	33.6	146	134.4	57.0	206	189.6	80.5	266	244.9	103.9	326	300.1	127.4
27	24.9	10.5	87	80.1	34.0	147	135.3	57.4	207	190.5	80.9	267	245.8	104.3	327	301.0	127.8
28	25.8	10.9	88	81.0	34.4	148	136.2	57.8	208	191.5	81.3	268	246.7	104.7	328	301.9	128.2
29	26.7	11.3	89	81.9	34.8	149	137.2	58.2	209	192.4	81.7	269	247.6	105.1	329	302.8	128.6
30	27.6	11.7	90	82.8	35.2	150	138.1	58.6	210	193.3	82.1	270	248.5	105.5	330	303.8	128.9
31	28.5	12.1	91	83.8	35.6	151	139.0	59.0	211	194.2	82.4	271	249.5	105.9	331	304.7	129.3
32	29.5	12.5	92	84.7	35.9	152	139.9	59.4	212	195.1	82.8	272	250.4	106.3	332	305.6	129.7
33	30.4	12.9	93	85.6	36.3	153	140.8	59.8	213	196.1	83.2	273	251.3	106.7	333	306.5	130.1
34	31.3	13.3	94	86.5	36.7	154	141.8	60.2	214	197.0	83.6	274	252.2	107.1	334	307.4	130.5
35	32.2	13.7	95	87.4	37.1	155	142.7	60.6	215	197.9	84.0	275	253.1	107.5	335	308.4	130.9
36	33.1	14.1	96	88.4	37.5	156	143.6	61.0	216	198.8	84.4	276	254.1	107.8	336	309.3	131.3
37	34.1	14.5	97	89.3	37.9	157	144.5	61.3	217	199.7	84.8	277	255.0	108.2	337	310.2	131.7
38	35.0	14.8	98	90.2	38.3	158	145.4	61.7	218	200.7	85.2	278	255.9	108.6	338	311.1	132.1
39	35.9	15.2	99	91.1	38.7	159	146.4	62.1	219	201.6	85.6	279	256.8	109.0	339	312.1	132.5
40	36.8	15.6	100	92.1	39.1	160	147.3	62.5	220	202.5	86.0	280	257.7	109.4	340	313.0	132.8
41	37.7	16.0	101	93.0	39.5	161	148.2	62.9	221	203.4	86.4	281	258.7	109.8	341	313.9	133.2
42	38.7	16.4	102	93.9	39.9	162	149.1	63.3	222	204.4	86.7	282	259.6	110.2	342	314.8	133.6
43	39.6	16.8	103	94.8	40.2	163	150.0	63.7	223	205.3	87.1	283	260.5	110.6	343	315.7	134.0
44	40.5	17.2	104	95.7	40.6	164	151.0	64.1	224	206.2	87.5	284	261.4	111.0	344	316.7	134.4
45	41.4	17.6	105	96.7	41.0	165	151.9	64.5	225	207.1	87.9	285	262.3	111.4	345	317.6	134.8
46	42.3	18.0	106	97.6	41.4	166	152.8	64.9	226	208.0	88.3	286	263.3	111.7	346	318.5	135.2
47	43.3	18.4	107	98.5	41.8	167	153.7	65.3	227	209.0	88.7	287	264.2	112.1	347	319.4	135.6
48	44.2	18.8	108	99.4	42.2	168	154.6	65.6	228	209.9	89.1	288	265.1	112.5	348	320.3	136.0
49	45.1	19.1	109	100.3	42.6	169	155.6	66.0	229	210.8	89.5	289	266.0	112.9	349	321.3	136.4
50	46.0	19.5	110	101.3	43.0	170	156.5	66.4	230	211.7	89.9	290	266.9	113.3	350	322.2	136.8
51	46.9	19.9	111	102.2	43.4	171	157.4	66.8	231	212.6	90.3	291	267.9	113.7	351	323.1	137.1
52	47.9	20.3	112	103.1	43.8	172	158.3	67.2	232	213.6	90.6	292	268.8	114.1	352	324.0	137.5
53	48.8	20.7	113	104.0	44.2	173	159.2	67.6	233	214.5	91.0	293	269.7	114.5	353	324.9	137.9
54	49.7	21.1	114	104.9	44.5	174	160.2	68.0	234	215.4	91.4	294	270.6	114.9	354	325.9	138.3
55	50.6	21.5	115	105.9	44.9	175	161.1	68.4	235	216.3	91.8	295	271.5	115.3	355	326.8	138.7
56	51.5	21.9	116	106.8	45.3	176	162.0	68.8	236	217.2	92.2	296	272.5	115.7	356	327.7	139.1
57	52.5	22.3	117	107.7	45.7	177	162.9	69.2	237	218.2	92.6	297	273.4	116.0	357	328.6	139.5
58	53.4	22.7	118	108.6	46.1	178	163.8	69.6	238	219.1	93.0	298	274.3	116.4	358	329.5	139.9
59	54.3	23.1	119	109.5	46.5	179	164.8	69.9	239	220.0	93.4	299	275.2	116.8	359	330.5	140.3
60	55.2	23.4	120	110.5	46.9	180	165.7	70.3	240	220.9	93.8	300	276.2	117.2	360	331.4	140.7
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	0.9	0.4	61	55.7	24.8	121	110.5	49.2	181	165.4	73.6	241	220.2	98.0	301	275.0	122.4
2	1.8	0.8	62	56.6	25.2	122	111.5	49.6	182	166.3	74.0	242	221.1	98.4	302	275.9	122.8
3	2.7	1.2	63	57.6	25.6	123	112.4	50.0	183	167.2	74.4	243	222.0	98.8	303	276.8	123.2
4	3.7	1.6	64	58.5	26.0	124	113.3	50.4	184	168.1	74.8	244	222.9	99.2	304	277.7	123.6
5	4.6	2.0	65	59.4	26.4	125	114.2	50.8	185	169.0	75.2	245	223.8	99.7	305	278.6	124.1
6	5.5	2.4	66	60.3	26.8	126	115.1	51.2	186	169.9	75.7	246	224.7	100.1	306	279.5	124.5
7	6.4	2.8	67	61.2	27.3	127	116.0	51.7	187	170.8	76.1	247	225.6	100.5	307	280.5	124.9
8	7.3	3.3	68	62.1	27.7	128	116.9	52.1	188	171.7	76.5	248	226.6	100.9	308	281.4	125.3
9	8.2	3.7	69	63.0	28.1	129	117.8	52.5	189	172.7	76.9	249	227.5	101.3	309	282.3	125.7
10	9.1	4.1	70	63.9	28.5	130	118.8	52.9	190	173.6	77.3	250	228.4	101.7	310	283.2	126.1
11	10.0	4.5	71	64.9	28.9	131	119.7	53.3	191	174.5	77.7	251	229.3	102.1	311	284.1	126.5
12	11.0	4.9	72	65.8	29.3	132	120.6	53.7	192	175.4	78.1	252	230.2	102.5	312	285.0	126.9
13	11.9	5.3	73	66.7	29.7	133	121.5	54.1	193	176.3	78.5	253	231.1	102.9	313	285.9	127.3
14	12.8	5.7	74	67.6	30.1	134	122.4	54.5	194	177.2	78.9	254	232.0	103.3	314	286.9	127.7
15	13.7	6.1	75	68.5	30.5	135	123.3	54.9	195	178.1	79.3	255	233.0	103.7	315	287.8	128.1
16	14.6	6.5	76	69.4	30.9	136	124.2	55.3	196	179.1	79.7	256	233.9	104.1	316	288.7	128.5
17	15.5	6.9	77	70.3	31.3	137	125.2	55.7	197	180.0	80.1	257	234.8	104.5	317	289.6	128.9
18	16.4	7.3	78	71.3	31.7	138	126.1	56.1	198	180.9	80.5	258	235.7	104.9	318	290.5	129.3
19	17.4	7.7	79	72.2	32.1	139	127.0	56.5	199	181.8	80.9	259	236.6	105.3	319	291.4	129.7
20	18.3	8.1	80	73.1	32.5	140	127.9	56.9	200	182.7	81.3	260	237.5	105.8	320	292.3	130.2
21	19.2	8.5	81	74.0	32.9	141	128.8	57.3	201	183.6	81.8	261	238.4	106.2	321	293.2	130.6
22	20.1	8.9	82	74.9	33.4	142	129.7	57.8	202	184.5	82.2	262	239.3	106.6	322	294.2	131.0
23	21.0	9.4	83	75.8	33.8	143	130.6	58.2	203	185.4	82.6	263	240.3	107.0	323	295.1	131.4
24	21.9	9.8	84	76.7	34.2	144	131.6	58.6	204	186.4	83.0	264	241.2	107.4	324	296.0	131.8
25	22.8	10.2	85	77.7	34.6	145	132.5	59.0	205	187.3	83.4	265	242.1	107.8	325	296.9	132.2
26	23.8	10.6	86	78.6	35.0	146	133.4	59.4	206	188.2	83.8	266	243.0	108.2	326	297.8	132.6
27	24.7	11.0	87	79.5	35.4	147	134.3	59.8	207	189.1	84.2	267	243.9	108.6	327	298.7	133.0
28	25.6	11.4	88	80.4	35.8	148	135.2	60.2	208	190.0	84.6	268	244.8	109.0	328	299.6	133.4
29	26.5	11.8	89	81.3	36.2	149	136.1	60.6	209	190.9	85.0	269	245.7	109.4	329	300.6	133.8
30	27.4	12.2	90	82.2	36.6	150	137.0	61.0	210	191.8	85.4	270	246.7	109.8	330	301.5	134.2
31	28.3	12.6	91	83.1	37.0	151	137.9	61.4	211	192.8	85.8	271	247.6	110.2	331	302.4	134.6
32	29.2	13.0	92	84.0	37.4	152	138.9	61.8	212	193.7	86.2	272	248.5	110.6	332	303.3	135.0
33	30.1	13.4	93	85.0	37.8	153	139.8	62.2	213	194.6	86.6	273	249.4	111.0	333	304.2	135.4
34	31.1	13.8	94	85.9	38.2	154	140.7	62.6	214	195.5	87.0	274	250.3	111.4	334	305.1	135.9
35	32.0	14.2	95	86.8	38.6	155	141.6	63.0	215	196.4	87.4	275	251.2	111.9	335	306.0	136.3
36	32.9	14.6	96	87.7	39.0	156	142.5	63.5	216	197.3	87.9	276	252.1	112.3	336	307.0	136.7
37	33.8	15.0	97	88.6	39.5	157	143.4	63.9	217	198.2	88.3	277	253.1	112.7	337	307.9	137.1
38	34.7	15.5	98	89.5	39.9	158	144.3	64.3	218	199.2	88.7	278	254.0	113.1	338	308.8	137.5
39	35.6	15.9	99	90.4	40.3	159	145.3	64.7	219	200.1	89.1	279	254.9	113.5	339	309.7	137.9
40	36.5	16.3	100	91.4	40.7	160	146.2	65.1	220	201.0	89.5	280	255.8	113.9	340	310.6	138.3
41	37.5	16.7	101	92.3	41.1	161	147.1	65.5	221	201.9	89.9	281	256.7	114.3	341	311.5	138.7
42	38.4	17.1	102	93.2	41.5	162	148.0	65.9	222	202.8	90.3	282	257.6	114.7	342	312.4	139.1
43	39.3	17.5	103	94.1	41.9	163	148.9	66.3	223	203.7	90.7	283	258.5	115.1	343	313.3	139.5
44	40.2	17.9	104	95.0	42.3	164	149.8	66.7	224	204.6	91.1	284	259.4	115.5	344	314.3	139.9
45	41.1	18.3	105	95.9	42.7	165	150.7	67.1	225	205.5	91.5	285	260.4	115.9	345	315.2	140.3
46	42.0	18.7	106	96.8	43.1	166	151.6	67.5	226	206.5	91.9	286	261.3	116.3	346	316.1	140.7
47	42.9	19.1	107	97.7	43.5	167	152.6	67.9	227	207.4	92.3	287	262.2	116.7	347	317.0	141.1
48	43.9	19.5	108	98.7	43.9	168	153.5	68.3	228	208.3	92.7	288	263.1	117.1	348	317.9	141.5
49	44.8	19.9	109	99.6	44.3	169	154.4	68.7	229	209.2	93.1	289	264.0	117.5	349	318.8	142.0
50	45.7	20.3	110	100.5	44.7	170	155.3	69.1	230	210.1	93.5	290	264.9	118.0	350	319.7	142.4
51	46.6	20.7	111	101.4	45.1	171	156.2	69.6	231	211.0	94.0	291	265.8	118.4	351	320.7	142.8
52	47.5	21.2	112	102.3	45.6	172	157.1	70.0	232	211.9	94.4	292	266.8	118.8	352	321.6	143.2
53	48.4	21.6	113	103.2	46.0	173	158.0	70.4	233	212.9	94.8	293	267.7	119.2	353	322.5	143.6
54	49.3	22.0	114	104.1	46.4	174	159.0	70.8	234	213.8	95.2	294	268.6	119.6	354	323.4	144.0
55	50.2	22.4	115	105.1	46.8	175	159.9	71.2	235	214.7	95.6	295	269.5	120.0	355	324.3	144.4
56	51.2	22.8	116	106.0	47.2	176	160.8	71.6	236	215.6	96.0	296	270.4	120.4	356	325.2	144.8
57	52.1	23.2	117	106.9	47.6	177	161.7	72.0	237	216.5	96.4	297	271.3	120.8	357	326.1	145.2
58	53.0	23.6	118	107.8	48.0	178	162.6	72.4	238	217.4	96.8	298	272.2	121.2	358	327.0	145.6
59	53.9	24.0	119	108.7	48.4	179	163.5	72.8	239	218.3	97.2	299	273.2	121.6	359	328.0	146.0
60	54.8	24.4	120	109.6	48.8	180	164.4	73.2	240	219.3	97.6	300	274.1	122.0	360	328.9	146.4
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	0.9	0.4	61	55.3	25.8	121	109.7	51.1	181	164.0	76.5	241	218.4	101.9	301	272.8	127.2
2	1.8	0.8	62	56.2	26.2	122	110.6	51.6	182	164.9	76.9	242	219.3	102.3	302	273.7	127.6
3	2.7	1.3	63	57.1	26.6	123	111.5	52.0	183	165.9	77.3	243	220.2	102.7	303	274.6	128.1
4	3.6	1.7	64	58.0	27.0	124	112.4	52.4	184	166.8	77.8	244	221.1	103.1	304	275.5	128.5
5	4.5	2.1	65	58.9	27.5	125	113.3	52.8	185	167.7	78.2	245	222.0	103.5	305	276.4	128.9
6	5.4	2.5	66	59.8	27.9	126	114.2	53.2	186	168.6	78.6	246	223.0	104.0	306	277.3	129.3
7	6.3	3.0	67	60.7	28.3	127	115.1	53.7	187	169.5	79.0	247	223.9	104.4	307	278.2	129.7
8	7.3	3.4	68	61.6	28.7	128	116.0	54.1	188	170.4	79.5	248	224.8	104.8	308	279.1	130.2
9	8.2	3.8	69	62.5	29.2	129	116.9	54.5	189	171.3	79.9	249	225.7	105.2	309	280.0	130.6
10	9.1	4.2	70	63.4	29.6	130	117.8	54.9	190	172.2	80.3	250	226.6	105.7	310	281.0	131.0
11	10.0	4.6	71	64.3	30.0	131	118.7	55.4	191	173.1	80.7	251	227.5	106.1	311	281.9	131.4
12	10.9	5.1	72	65.3	30.4	132	119.6	55.8	192	174.0	81.1	252	228.4	106.5	312	282.8	131.9
13	11.8	5.5	73	66.2	30.9	133	120.5	56.2	193	174.9	81.6	253	229.3	106.9	313	283.7	132.3
14	12.7	5.9	74	67.1	31.3	134	121.4	56.6	194	175.8	82.0	254	230.2	107.3	314	284.6	132.7
15	13.6	6.3	75	68.0	31.7	135	122.4	57.1	195	176.7	82.4	255	231.1	107.8	315	285.5	133.1
16	14.5	6.8	76	68.9	32.1	136	123.3	57.5	196	177.6	82.8	256	232.0	108.2	316	286.4	133.5
17	15.4	7.2	77	69.8	32.5	137	124.2	57.9	197	178.5	83.3	257	232.9	108.6	317	287.3	134.0
18	16.3	7.6	78	70.7	33.0	138	125.1	58.3	198	179.4	83.7	258	233.8	109.0	318	288.2	134.4
19	17.2	8.0	79	71.6	33.4	139	126.0	58.7	199	180.4	84.1	259	234.7	109.5	319	289.1	134.8
20	18.1	8.5	80	72.5	33.8	140	126.9	59.2	200	181.3	84.5	260	235.6	109.9	320	290.0	135.2
21	19.0	8.9	81	73.4	34.2	141	127.8	59.6	201	182.2	84.9	261	236.5	110.3	321	290.9	135.7
22	19.9	9.3	82	74.3	34.7	142	128.7	60.0	202	183.1	85.4	262	237.5	110.7	322	291.8	136.1
23	20.8	9.7	83	75.2	35.1	143	129.6	60.4	203	184.0	85.8	263	238.4	111.1	323	292.7	136.5
24	21.8	10.1	84	76.1	35.5	144	130.5	60.9	204	184.9	86.2	264	239.3	111.6	324	293.6	136.9
25	22.7	10.6	85	77.0	35.9	145	131.4	61.3	205	185.8	86.6	265	240.2	112.0	325	294.6	137.4
26	23.6	11.0	86	77.9	36.3	146	132.3	61.7	206	186.7	87.1	266	241.1	112.4	326	295.5	137.8
27	24.5	11.4	87	78.8	36.8	147	133.2	62.1	207	187.6	87.5	267	242.0	112.8	327	296.4	138.2
28	25.4	11.8	88	79.8	37.2	148	134.1	62.5	208	188.5	87.9	268	242.9	113.3	328	297.3	138.6
29	26.3	12.3	89	80.7	37.6	149	135.0	63.0	209	189.4	88.3	269	243.8	113.7	329	298.2	139.0
30	27.2	12.7	90	81.6	38.0	150	135.9	63.4	210	190.3	88.7	270	244.7	114.1	330	299.1	139.5
31	28.1	13.1	91	82.5	38.5	151	136.9	63.8	211	191.2	89.2	271	245.6	114.5	331	300.0	139.9
32	29.0	13.5	92	83.4	38.9	152	137.8	64.2	212	192.1	89.6	272	246.5	115.0	332	300.9	140.3
33	29.9	13.9	93	84.3	39.3	153	138.7	64.7	213	193.0	90.0	273	247.4	115.4	333	301.8	140.7
34	30.8	14.4	94	85.2	39.7	154	139.6	65.1	214	193.9	90.4	274	248.3	115.8	334	302.7	141.2
35	31.7	14.8	95	86.1	40.1	155	140.5	65.5	215	194.9	90.9	275	249.2	116.2	335	303.6	141.6
36	32.6	15.2	96	87.0	40.6	156	141.4	65.9	216	195.8	91.3	276	250.1	116.6	336	304.5	142.0
37	33.5	15.6	97	87.9	41.0	157	142.3	66.4	217	196.7	91.7	277	251.0	117.1	337	305.4	142.4
38	34.4	16.1	98	88.8	41.4	158	143.2	66.8	218	197.6	92.1	278	252.0	117.5	338	306.3	142.8
39	35.3	16.5	99	89.7	41.8	159	144.1	67.2	219	198.5	92.6	279	252.9	117.9	339	307.2	143.3
40	36.3	16.9	100	90.6	42.3	160	145.0	67.6	220	199.4	93.0	280	253.8	118.3	340	308.1	143.7
41	37.2	17.3	101	91.5	42.7	161	145.9	68.0	221	200.3	93.4	281	254.7	118.8	341	309.1	144.1
42	38.1	17.7	102	92.4	43.1	162	146.8	68.5	222	201.2	93.8	282	255.6	119.2	342	310.0	144.5
43	39.0	18.2	103	93.3	43.5	163	147.7	68.9	223	202.1	94.2	283	256.5	119.6	343	310.9	145.0
44	39.9	18.6	104	94.3	44.0	164	148.6	69.3	224	203.0	94.7	284	257.4	120.0	344	311.8	145.4
45	40.8	19.0	105	95.2	44.4	165	149.5	69.7	225	203.9	95.1	285	258.3	120.4	345	312.7	145.8
46	41.7	19.4	106	96.1	44.8	166	150.4	70.2	226	204.8	95.5	286	259.2	120.9	346	313.6	146.2
47	42.6	19.9	107	97.0	45.2	167	151.4	70.6	227	205.7	95.9	287	260.1	121.3	347	314.5	146.6
48	43.5	20.3	108	97.9	45.6	168	152.3	71.0	228	206.6	96.4	288	261.0	121.7	348	315.4	147.1
49	44.4	20.7	109	98.8	46.1	169	153.2	71.4	229	207.5	96.8	289	261.9	122.1	349	316.3	147.5
50	45.3	21.1	110	99.7	46.5	170	154.1	71.8	230	208.5	97.2	290	262.8	122.6	350	317.2	147.9
51	46.2	21.6	111	100.6	46.9	171	155.0	72.3	231	209.4	97.6	291	263.7	123.0	351	318.1	148.3
52	47.1	22.0	112	101.5	47.3	172	155.9	72.7	232	210.3	98.0	292	264.6	123.4	352	319.0	148.8
53	48.0	22.4	113	102.4	47.8	173	156.8	73.1	233	211.2	98.5	293	265.5	123.8	353	319.9	149.2
54	48.9	22.8	114	103.3	48.2	174	157.7	73.5	234	212.1	98.9	294	266.5	124.2	354	320.8	149.6
55	49.8	23.2	115	104.2	48.6	175	158.6	74.0	235	213.0	99.3	295	267.4	124.7	355	321.7	150.0
56	50.8	23.7	116	105.1	49.0	176	159.5	74.4	236	213.9	99.7	296	268.3	125.1	356	322.6	150.5
57	51.7	24.1	117	106.0	49.4	177	160.4	74.8	237	214.8	100.2	297	269.2	125.5	357	323.6	150.9
58	52.6	24.5	118	106.9	49.9	178	161.3	75.2	238	215.7	100.6	298	270.1	125.9	358	324.5	151.3
59	53.5	24.9	119	107.9	50.3	179	162.2	75.6	239	216.6	101.0	299	271.0	126.4	359	325.4	151.7
60	54.4	25.4	120	108.8	50.7	180	163.1	76.1	240	217.5	101.4	300	271.9	126.8	360	326.3	152.1
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	327.2	152.6	421	381.6	177.9	481	435.9	203.3	541	490.3	228.6	601	544.7	254.0	661	599.1	279.4
362	328.1	153.0	422	382.5	178.3	482	436.8	203.7	542	491.2	229.1	602	545.6	254.4	662	600.0	279.8
363	329.0	153.4	423	383.4	178.8	483	437.7	204.1	543	492.1	229.5	603	546.5	254.8	663	600.9	280.2
364	329.9	153.8	424	384.3	179.2	484	438.7	204.5	544	493.0	229.9	604	547.4	255.3	664	601.8	280.6
365	330.8	154.3	425	385.2	179.6	485	439.6	205.0	545	493.9	230.3	605	548.3	255.7	665	602.7	281.0
366	331.7	154.7	426	386.1	180.0	486	440.5	205.4	546	494.8	230.7	606	549.2	256.1	666	603.6	281.5
367	332.6	155.1	427	387.0	180.5	487	441.4	205.8	547	495.8	231.2	607	550.1	256.5	667	604.5	281.9
368	333.5	155.5	428	387.9	180.9	488	442.3	206.2	548	496.7	231.6	608	551.0	257.0	668	605.4	282.3
369	334.4	155.9	429	388.8	181.3	489	443.2	206.7	549	497.6	232.0	609	551.9	257.4	669	606.3	282.7
370	335.3	156.4	430	389.7	181.7	490	444.1	207.1	550	498.5	232.4	610	552.8	257.8	670	607.2	283.2
371	336.2	156.8	431	390.6	182.1	491	445.0	207.5	551	499.4	232.9	611	553.8	258.2	671	608.1	283.6
372	337.1	157.2	432	391.5	182.6	492	445.9	207.9	552	500.3	233.3	612	554.7	258.6	672	609.0	284.0
373	338.1	157.6	433	392.4	183.0	493	446.8	208.4	553	501.2	233.7	613	555.6	259.1	673	609.9	284.4
374	339.0	158.1	434	393.3	183.4	494	447.7	208.8	554	502.1	234.1	614	556.5	259.5	674	610.9	284.8
375	339.9	158.5	435	394.2	183.8	495	448.6	209.2	555	503.0	234.6	615	557.4	259.9	675	611.8	285.3
376	340.8	158.9	436	395.2	184.3	496	449.5	209.6	556	503.9	235.0	616	558.3	260.3	676	612.7	285.7
377	341.7	159.3	437	396.1	184.7	497	450.4	210.0	557	504.8	235.4	617	559.2	260.8	677	613.6	286.1
378	342.6	159.7	438	397.0	185.1	498	451.3	210.5	558	505.7	235.8	618	560.1	261.2	678	614.5	286.5
379	343.5	160.2	439	397.9	185.5	499	452.2	210.9	559	506.6	236.2	619	561.0	261.6	679	615.4	287.0
380	344.4	160.6	440	398.8	186.0	500	453.2	211.3	560	507.5	236.7	620	561.9	262.0	680	616.3	287.4
381	345.3	161.0	441	399.7	186.4	501	454.1	211.7	561	508.4	237.1	621	562.8	262.4	681	617.2	287.8
382	346.2	161.4	442	400.6	186.8	502	455.0	212.2	562	509.3	237.5	622	563.7	262.9	682	618.1	288.2
383	347.1	161.9	443	401.5	187.2	503	455.9	212.6	563	510.3	237.9	623	564.6	263.3	683	619.0	288.6
384	348.0	162.3	444	402.4	187.6	504	456.8	213.0	564	511.2	238.4	624	565.5	263.7	684	619.9	289.1
385	348.9	162.7	445	403.3	188.1	505	457.7	213.4	565	512.1	238.8	625	566.4	264.1	685	620.8	289.5
386	349.8	163.1	446	404.2	188.5	506	458.6	213.8	566	513.0	239.2	626	567.3	264.6	686	621.7	289.9
387	350.7	163.6	447	405.1	188.9	507	459.5	214.3	567	513.9	239.6	627	568.3	265.0	687	622.6	290.3
388	351.6	164.0	448	406.0	189.3	508	460.4	214.7	568	514.8	240.0	628	569.2	265.4	688	623.5	290.8
389	352.6	164.4	449	406.9	189.8	509	461.3	215.1	569	515.7	240.5	629	570.1	265.8	689	624.4	291.2
390	353.5	164.8	450	407.8	190.2	510	462.2	215.5	570	516.6	240.9	630	571.0	266.2	690	625.4	291.6
391	354.4	165.2	451	408.7	190.6	511	463.1	216.0	571	517.5	241.3	631	571.9	266.7	691	626.3	292.0
392	355.3	165.7	452	409.7	191.0	512	464.0	216.4	572	518.4	241.7	632	572.8	267.1	692	627.2	292.5
393	356.2	166.1	453	410.6	191.4	513	464.9	216.8	573	519.3	242.2	633	573.7	267.5	693	628.1	292.9
394	357.1	166.5	454	411.5	191.9	514	465.8	217.2	574	520.2	242.6	634	574.6	267.9	694	629.0	293.3
395	358.0	166.9	455	412.4	192.3	515	466.7	217.6	575	521.1	243.0	635	575.5	268.4	695	629.9	293.7
396	358.9	167.4	456	413.3	192.7	516	467.7	218.1	576	522.0	243.4	636	576.4	268.8	696	630.8	294.1
397	359.8	167.8	457	414.2	193.1	517	468.6	218.5	577	522.9	243.9	637	577.3	269.2	697	631.7	294.6
398	360.7	168.2	458	415.1	193.6	518	469.5	218.9	578	523.8	244.3	638	578.2	269.6	698	632.6	295.0
399	361.6	168.6	459	416.0	194.0	519	470.4	219.3	579	524.8	244.7	639	579.1	270.1	699	633.5	295.4
400	362.5	169.0	460	416.9	194.4	520	471.3	219.8	580	525.7	245.1	640	580.0	270.5	700	634.4	295.8
401	363.4	169.5	461	417.8	194.8	521	472.2	220.2	581	526.6	245.5	641	580.9	270.9	701	635.3	296.3
402	364.3	169.9	462	418.7	195.2	522	473.1	220.6	582	527.5	246.0	642	581.8	271.3	702	636.2	296.7
403	365.2	170.3	463	419.6	195.7	523	474.0	221.0	583	528.4	246.4	643	582.8	271.7	703	637.1	297.1
404	366.1	170.7	464	420.5	196.1	524	474.9	221.5	584	529.3	246.8	644	583.7	272.2	704	638.0	297.5
405	367.1	171.2	465	421.4	196.5	525	475.8	221.9	585	530.2	247.2	645	584.6	272.6	705	638.9	297.9
406	368.0	171.6	466	422.3	196.9	526	476.7	222.3	586	531.1	247.7	646	585.5	273.0	706	639.9	298.4
407	368.9	172.0	467	423.2	197.4	527	477.6	222.7	587	532.0	248.1	647	586.4	273.4	707	640.8	298.8
408	369.8	172.4	468	424.2	197.8	528	478.5	223.1	588	532.9	248.5	648	587.3	273.9	708	641.7	299.2
409	370.7	172.9	469	425.1	198.2	529	479.4	223.6	589	533.8	248.9	649	588.2	274.3	709	642.6	299.6
410	371.6	173.3	470	426.0	198.6	530	480.3	224.0	590	534.7	249.3	650	589.1	274.7	710	643.5	300.1
411	372.5	173.7	471	426.9	199.1	531	481.2	224.4	591	535.6	249.8	651	590.0	275.1	711	644.4	300.5
412	373.4	174.1	472	427.8	199.5	532	482.2	224.8	592	536.5	250.2	652	590.9	275.5	712	645.3	300.9
413	374.3	174.5	473	428.7	199.9	533	483.1	225.3	593	537.4	250.6	653	591.8	276.0	713	646.2	301.3
414	375.2	175.0	474	429.6	200.3	534	484.0	225.7	594	538.3	251.0	654	592.7	276.4	714	647.1	301.7
415	376.1	175.4	475	430.5	200.7	535	484.9	226.1	595	539.3	251.5	655	593.6	276.8	715	648.0	302.2
416	377.0	175.8	476	431.4	201.2	536	485.8	226.5	596	540.2	251.9	656	594.5	277.2	716	648.9	302.6
417	377.9	176.2	477	432.3	201.6	537	486.7	226.9	597	541.1	252.3	657	595.4	277.7	717	649.8	303.0
418	378.8	176.7	478	433.2	202.0	538	487.6	227.4	598	542.0	252.7	658	596.4	278.1	718	650.7	303.4
419	379.7	177.1	479	434.1	202.4	539	488.5	227.8	599	542.9	253.1	659	597.3	278.5	719	651.6	303.9
420	380.6	177.5	480	435.0	202.9	540	489.4	228.2	600	543.8	253.6	660	598.2	278.9	720	652.5	304.3
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	0.9	0.4	61	54.8	26.7	121	108.8	53.0	181	162.7	79.3	241	216.6	105.6	301	270.5	131.9
2	1.8	0.9	62	55.7	27.2	122	109.7	53.5	182	163.6	79.8	242	217.5	106.1	302	271.4	132.4
3	2.7	1.3	63	56.6	27.6	123	110.6	53.9	183	164.5	80.2	243	218.4	106.5	303	272.3	132.8
4	3.6	1.8	64	57.5	28.1	124	111.5	54.4	184	165.4	80.7	244	219.3	107.0	304	273.2	133.3
5	4.5	2.2	65	58.4	28.5	125	112.3	54.8	185	166.3	81.1	245	220.2	107.4	305	274.1	133.7
6	5.4	2.6	66	59.3	28.9	126	113.2	55.2	186	167.2	81.5	246	221.1	107.8	306	275.0	134.1
7	6.3	3.1	67	60.2	29.4	127	114.1	55.7	187	168.1	82.0	247	222.0	108.3	307	275.9	134.6
8	7.2	3.5	68	61.1	29.8	128	115.0	56.1	188	169.0	82.4	248	222.9	108.7	308	276.8	135.0
9	8.1	3.9	69	62.0	30.2	129	115.9	56.5	189	169.9	82.9	249	223.8	109.2	309	277.7	135.5
10	9.0	4.4	70	62.9	30.7	130	116.8	57.0	190	170.8	83.3	250	224.7	109.6	310	278.6	135.9
11	9.9	4.8	71	63.8	31.1	131	117.7	57.4	191	171.7	83.7	251	225.6	110.0	311	279.5	136.3
12	10.8	5.3	72	64.7	31.6	132	118.6	57.9	192	172.6	84.2	252	226.5	110.5	312	280.4	136.8
13	11.7	5.7	73	65.6	32.0	133	119.5	58.3	193	173.5	84.6	253	227.4	110.9	313	281.3	137.2
14	12.6	6.1	74	66.5	32.4	134	120.4	58.7	194	174.4	85.0	254	228.3	111.3	314	282.2	137.6
15	13.5	6.6	75	67.4	32.9	135	121.3	59.2	195	175.3	85.5	255	229.2	111.8	315	283.1	138.1
16	14.4	7.0	76	68.3	33.3	136	122.2	59.6	196	176.2	85.9	256	230.1	112.2	316	284.0	138.5
17	15.3	7.5	77	69.2	33.8	137	123.1	60.1	197	177.1	86.4	257	231.0	112.7	317	284.9	139.0
18	16.2	7.9	78	70.1	34.2	138	124.0	60.5	198	178.0	86.8	258	231.9	113.1	318	285.8	139.4
19	17.1	8.3	79	71.0	34.6	139	124.9	60.9	199	178.9	87.2	259	232.8	113.5	319	286.7	139.8
20	18.0	8.8	80	71.9	35.1	140	125.8	61.4	200	179.8	87.7	260	233.7	114.0	320	287.6	140.3
21	18.9	9.2	81	72.8	35.5	141	126.7	61.8	201	180.7	88.1	261	234.6	114.4	321	288.5	140.7
22	19.8	9.6	82	73.7	35.9	142	127.6	62.2	202	181.6	88.6	262	235.5	114.9	322	289.4	141.2
23	20.7	10.1	83	74.6	36.4	143	128.5	62.7	203	182.5	89.0	263	236.4	115.3	323	290.3	141.6
24	21.6	10.5	84	75.5	36.8	144	129.4	63.1	204	183.4	89.4	264	237.3	115.7	324	291.2	142.0
25	22.5	11.0	85	76.4	37.3	145	130.3	63.6	205	184.3	89.9	265	238.2	116.2	325	292.1	142.5
26	23.4	11.4	86	77.3	37.7	146	131.2	64.0	206	185.2	90.3	266	239.1	116.6	326	293.0	142.9
27	24.3	11.8	87	78.2	38.1	147	132.1	64.4	207	186.1	90.7	267	240.0	117.0	327	293.9	143.3
28	25.2	12.3	88	79.1	38.6	148	133.0	64.9	208	186.9	91.2	268	240.9	117.5	328	294.8	143.8
29	26.1	12.7	89	80.0	39.0	149	133.9	65.3	209	187.8	91.6	269	241.8	117.9	329	295.7	144.2
30	27.0	13.2	90	80.9	39.5	150	134.8	65.8	210	188.7	92.1	270	242.7	118.4	330	296.6	144.7
31	27.9	13.6	91	81.8	39.9	151	135.7	66.2	211	189.6	92.5	271	243.6	118.8	331	297.5	145.1
32	28.8	14.0	92	82.7	40.3	152	136.6	66.6	212	190.5	92.9	272	244.5	119.2	332	298.4	145.5
33	29.7	14.5	93	83.6	40.8	153	137.5	67.1	213	191.4	93.4	273	245.4	119.7	333	299.3	146.0
34	30.6	14.9	94	84.5	41.2	154	138.4	67.5	214	192.3	93.8	274	246.3	120.1	334	300.2	146.4
35	31.5	15.3	95	85.4	41.6	155	139.3	67.9	215	193.2	94.2	275	247.2	120.6	335	301.1	146.9
36	32.4	15.8	96	86.3	42.1	156	140.2	68.4	216	194.1	94.7	276	248.1	121.0	336	302.0	147.3
37	33.3	16.2	97	87.2	42.5	157	141.1	68.8	217	195.0	95.1	277	249.0	121.4	337	302.9	147.7
38	34.2	16.7	98	88.1	43.0	158	142.0	69.3	218	195.9	95.6	278	249.9	121.9	338	303.8	148.2
39	35.1	17.1	99	89.0	43.4	159	142.9	69.7	219	196.8	96.0	279	250.8	122.3	339	304.7	148.6
40	36.0	17.5	100	89.9	43.8	160	143.8	70.1	220	197.7	96.4	280	251.7	122.7	340	305.6	149.0
41	36.9	18.0	101	90.8	44.3	161	144.7	70.6	221	198.6	96.9	281	252.6	123.2	341	306.5	149.5
42	37.7	18.4	102	91.7	44.7	162	145.6	71.0	222	199.5	97.3	282	253.5	123.6	342	307.4	149.9
43	38.6	18.8	103	92.6	45.2	163	146.5	71.5	223	200.4	97.8	283	254.4	124.1	343	308.3	150.4
44	39.5	19.3	104	93.5	45.6	164	147.4	71.9	224	201.3	98.2	284	255.3	124.5	344	309.2	150.8
45	40.4	19.7	105	94.4	46.0	165	148.3	72.3	225	202.2	98.6	285	256.2	124.9	345	310.1	151.2
46	41.3	20.2	106	95.3	46.5	166	149.2	72.8	226	203.1	99.1	286	257.1	125.4	346	311.0	151.7
47	42.2	20.6	107	96.2	46.9	167	150.1	73.2	227	204.0	99.5	287	258.0	125.8	347	311.9	152.1
48	43.1	21.0	108	97.1	47.3	168	151.0	73.6	228	204.9	99.9	288	258.9	126.3	348	312.8	152.6
49	44.0	21.5	109	98.0	47.8	169	151.9	74.1	229	205.8	100.4	289	259.8	126.7	349	313.7	153.0
50	44.9	21.9	110	98.9	48.2	170	152.8	74.5	230	206.7	100.8	290	260.7	127.1	350	314.6	153.4
51	45.8	22.4	111	99.8	48.7	171	153.7	75.0	231	207.6	101.3	291	261.5	127.6	351	315.5	153.9
52	46.7	22.8	112	100.7	49.1	172	154.6	75.4	232	208.5	101.7	292	262.4	128.0	352	316.4	154.3
53	47.6	23.2	113	101.6	49.5	173	155.5	75.8	233	209.4	102.1	293	263.3	128.4	353	317.3	154.7
54	48.5	23.7	114	102.5	50.0	174	156.4	76.3	234	210.3	102.6	294	264.2	128.9	354	318.2	155.2
55	49.4	24.1	115	103.4	50.4	175	157.3	76.7	235	211.2	103.0	295	265.1	129.3	355	319.1	155.6
56	50.3	24.5	116	104.3	50.9	176	158.2	77.2	236	212.1	103.5	296	266.0	129.8	356	320.0	156.1
57	51.2	25.0	117	105.2	51.3	177	159.1	77.6	237	213.0	103.9	297	266.9	130.2	357	320.9	156.5
58	52.1	25.4	118	106.1	51.7	178	160.0	78.0	238	213.9	104.3	298	267.8	130.6	358	321.8	156.9
59	53.0	25.9	119	107.0	52.2	179	160.9	78.5	239	214.8	104.8	299	268.7	131.1	359	322.7	157.4
60	53.9	26.3	120	107.9	52.6	180	161.8	78.9	240	215.7	105.2	300	269.6	131.5	360	323.6	157.8
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	324.5	158.3	421	378.4	184.6	481	432.3	210.9	541	486.2	237.2	601	540.2	263.5	661	594.1	289.8
362	325.4	158.7	422	379.3	185.0	482	433.2	211.3	542	487.1	237.6	602	541.1	263.9	662	595.0	290.2
363	326.3	159.1	423	380.2	185.4	483	434.1	211.7	543	488.0	238.0	603	542.0	264.3	663	595.9	290.6
364	327.2	159.6	424	381.1	185.9	484	435.0	212.2	544	488.9	238.5	604	542.9	264.8	664	596.8	291.1
365	328.1	160.0	425	382.0	186.3	485	435.9	212.6	545	489.8	238.9	605	543.8	265.2	665	597.7	291.5
366	329.0	160.4	426	382.9	186.7	486	436.8	213.0	546	490.7	239.4	606	544.7	265.7	666	598.6	292.0
367	329.9	160.9	427	383.8	187.2	487	437.7	213.5	547	491.6	239.8	607	545.6	266.1	667	599.5	292.4
368	330.8	161.3	428	384.7	187.6	488	438.6	213.9	548	492.5	240.2	608	546.5	266.5	668	600.4	292.8
369	331.7	161.8	429	385.6	188.1	489	439.5	214.4	549	493.4	240.7	609	547.4	267.0	669	601.3	293.3
370	332.6	162.2	430	386.5	188.5	490	440.4	214.8	550	494.3	241.1	610	548.3	267.4	670	602.2	293.7
371	333.5	162.6	431	387.4	188.9	491	441.3	215.2	551	495.2	241.5	611	549.2	267.8	671	603.1	294.1
372	334.4	163.1	432	388.3	189.4	492	442.2	215.7	552	496.1	242.0	612	550.1	268.3	672	604.0	294.6
373	335.3	163.5	433	389.2	189.8	493	443.1	216.1	553	497.0	242.4	613	551.0	268.7	673	604.9	295.0
374	336.1	164.0	434	390.1	190.3	494	444.0	216.6	554	497.9	242.9	614	551.9	269.2	674	605.8	295.5
375	337.0	164.4	435	391.0	190.7	495	444.9	217.0	555	498.8	243.3	615	552.8	269.6	675	606.7	295.9
376	337.9	164.8	436	391.9	191.1	496	445.8	217.4	556	499.7	243.7	616	553.7	270.0	676	607.6	296.3
377	338.8	165.3	437	392.8	191.6	497	446.7	217.9	557	500.6	244.2	617	554.6	270.5	677	608.5	296.8
378	339.7	165.7	438	393.7	192.0	498	447.6	218.3	558	501.5	244.6	618	555.5	270.9	678	609.4	297.2
379	340.6	166.1	439	394.6	192.4	499	448.5	218.7	559	502.4	245.0	619	556.4	271.4	679	610.3	297.7
380	341.5	166.6	440	395.5	192.9	500	449.4	219.2	560	503.3	245.5	620	557.3	271.8	680	611.2	298.1
381	342.4	167.0	441	396.4	193.3	501	450.3	219.6	561	504.2	245.9	621	558.2	272.2	681	612.1	298.5
382	343.3	167.5	442	397.3	193.8	502	451.2	220.1	562	505.1	246.4	622	559.0	272.7	682	613.0	299.0
383	344.2	167.9	443	398.2	194.2	503	452.1	220.5	563	506.0	246.8	623	559.9	273.1	683	613.9	299.4
384	345.1	168.3	444	399.1	194.6	504	453.0	220.9	564	506.9	247.2	624	560.8	273.5	684	614.8	299.8
385	346.0	168.8	445	400.0	195.1	505	453.9	221.4	565	507.8	247.7	625	561.7	274.0	685	615.7	300.3
386	346.9	169.2	446	400.9	195.5	506	454.8	221.8	566	508.7	248.1	626	562.6	274.4	686	616.6	300.7
387	347.8	169.6	447	401.8	196.0	507	455.7	222.3	567	509.6	248.6	627	563.5	274.9	687	617.5	301.2
388	348.7	170.1	448	402.7	196.4	508	456.6	222.7	568	510.5	249.0	628	564.4	275.3	688	618.4	301.6
389	349.6	170.5	449	403.6	196.8	509	457.5	223.1	569	511.4	249.4	629	565.3	275.7	689	619.3	302.0
390	350.5	171.0	450	404.5	197.3	510	458.4	223.6	570	512.3	249.9	630	566.2	276.2	690	620.2	302.5
391	351.4	171.4	451	405.4	197.7	511	459.3	224.0	571	513.2	250.3	631	567.1	276.6	691	621.1	302.9
392	352.3	171.8	452	406.3	198.1	512	460.2	224.4	572	514.1	250.7	632	568.0	277.1	692	622.0	303.4
393	353.2	172.3	453	407.2	198.6	513	461.1	224.9	573	515.0	251.2	633	568.9	277.5	693	622.9	303.8
394	354.1	172.7	454	408.1	199.0	514	462.0	225.3	574	515.9	251.6	634	569.8	277.9	694	623.8	304.2
395	355.0	173.2	455	409.0	199.5	515	462.9	225.8	575	516.8	252.1	635	570.7	278.4	695	624.7	304.7
396	355.9	173.6	456	409.9	199.9	516	463.8	226.2	576	517.7	252.5	636	571.6	278.8	696	625.6	305.1
397	356.8	174.0	457	410.7	200.3	517	464.7	226.6	577	518.6	252.9	637	572.5	279.2	697	626.5	305.5
398	357.7	174.5	458	411.6	200.8	518	465.6	227.1	578	519.5	253.4	638	573.4	279.7	698	627.4	306.0
399	358.6	174.9	459	412.5	201.2	519	466.5	227.5	579	520.4	253.8	639	574.3	280.1	699	628.3	306.4
400	359.5	175.3	460	413.4	201.7	520	467.4	228.0	580	521.3	254.3	640	575.2	280.6	700	629.2	306.9
401	360.4	175.8	461	414.3	202.1	521	468.3	228.4	581	522.2	254.7	641	576.1	281.0	701	630.1	307.3
402	361.3	176.2	462	415.2	202.5	522	469.2	228.8	582	523.1	255.1	642	577.0	281.4	702	631.0	307.7
403	362.2	176.7	463	416.1	203.0	523	470.1	229.3	583	524.0	255.6	643	577.9	281.9	703	631.9	308.2
404	363.1	177.1	464	417.0	203.4	524	471.0	229.7	584	524.9	256.0	644	578.8	282.3	704	632.8	308.6
405	364.0	177.5	465	417.9	203.8	525	471.9	230.1	585	525.8	256.4	645	579.7	282.7	705	633.6	309.1
406	364.9	178.0	466	418.8	204.3	526	472.8	230.6	586	526.7	256.9	646	580.6	283.2	706	634.5	309.5
407	365.8	178.4	467	419.7	204.7	527	473.7	231.0	587	527.6	257.3	647	581.5	283.6	707	635.4	309.9
408	366.7	178.9	468	420.6	205.2	528	474.6	231.5	588	528.5	257.8	648	582.4	284.1	708	636.3	310.4
409	367.6	179.3	469	421.5	205.6	529	475.5	231.9	589	529.4	258.2	649	583.3	284.5	709	637.2	310.8
410	368.5	179.7	470	422.4	206.0	530	476.4	232.3	590	530.3	258.6	650	584.2	284.9	710	638.1	311.2
411	369.4	180.2	471	423.3	206.5	531	477.3	232.8	591	531.2	259.1	651	585.1	285.4	711	639.0	311.7
412	370.3	180.6	472	424.2	206.9	532	478.2	233.2	592	532.1	259.5	652	586.0	285.8	712	639.9	312.1
413	371.2	181.0	473	425.1	207.3	533	479.1	233.7	593	533.0	260.0	653	586.9	286.3	713	640.8	312.6
414	372.1	181.5	474	426.0	207.8	534	480.0	234.1	594	533.9	260.4	654	587.8	286.7	714	641.7	313.0
415	373.0	181.9	475	426.9	208.2	535	480.9	234.5	595	534.8	260.8	655	588.7	287.1	715	642.6	313.4
416	373.9	182.4	476	427.8	208.7	536	481.8	235.0	596	535.7	261.3	656	589.6	287.6	716	643.5	313.9
417	374.8	182.8	477	428.7	209.1	537	482.7	235.4	597	536.6	261.7	657	590.5	288.0	717	644.4	314.3
418	375.7	183.2	478	429.6	209.5	538	483.6	235.8	598	537.5	262.1	658	591.4	288.4	718	645.3	314.8
419	376.6	183.7	479	430.5	210.0	539	484.4	236.3	599	538.4	262.6	659	592.3	288.9	719	646.2	315.2
420	377.5	184.1	480	431.4	210.4	540	485.3	236.7	600	539.3	263.0	660	593.2	289.3	720	647.1	315.6

D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI
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D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	0.9	0.5	61	54.4	27.7	121	107.8	54.9	181	161.3	82.2	241	214.7	109.4	301	268.2	136.7
2	1.8	0.9	62	55.2	28.1	122	108.7	55.4	182	162.2	82.6	242	215.6	109.9	302	269.1	137.1
3	2.7	1.4	63	56.1	28.6	123	109.6	55.8	183	163.1	83.1	243	216.5	110.3	303	270.0	137.6
4	3.6	1.8	64	57.0	29.1	124	110.5	56.3	184	163.9	83.5	244	217.4	110.8	304	270.9	138.0
5	4.5	2.3	65	57.9	29.5	125	111.4	56.7	185	164.8	84.0	245	218.3	111.2	305	271.8	138.5
6	5.3	2.7	66	58.8	30.0	126	112.3	57.2	186	165.7	84.4	246	219.2	111.7	306	272.6	138.9
7	6.2	3.2	67	59.7	30.4	127	113.2	57.7	187	166.6	84.9	247	220.1	112.1	307	273.5	139.4
8	7.1	3.6	68	60.6	30.9	128	114.0	58.1	188	167.5	85.4	248	221.0	112.6	308	274.4	139.8
9	8.0	4.1	69	61.5	31.3	129	114.9	58.6	189	168.4	85.8	249	221.9	113.0	309	275.3	140.3
10	8.9	4.5	70	62.4	31.8	130	115.8	59.0	190	169.3	86.3	250	222.8	113.5	310	276.2	140.7
11	9.8	5.0	71	63.3	32.2	131	116.7	59.5	191	170.2	86.7	251	223.6	114.0	311	277.1	141.2
12	10.7	5.4	72	64.2	32.7	132	117.6	59.9	192	171.1	87.2	252	224.5	114.4	312	278.0	141.6
13	11.6	5.9	73	65.0	33.1	133	118.5	60.4	193	172.0	87.6	253	225.4	114.9	313	278.9	142.1
14	12.5	6.4	74	65.9	33.6	134	119.4	60.8	194	172.9	88.1	254	226.3	115.3	314	279.8	142.6
15	13.4	6.8	75	66.8	34.0	135	120.3	61.3	195	173.7	88.5	255	227.2	115.8	315	280.7	143.0
16	14.3	7.3	76	67.7	34.5	136	121.2	61.7	196	174.6	89.0	256	228.1	116.2	316	281.6	143.5
17	15.1	7.7	77	68.6	35.0	137	122.1	62.2	197	175.5	89.4	257	229.0	116.7	317	282.4	143.9
18	16.0	8.2	78	69.5	35.4	138	123.0	62.7	198	176.4	89.9	258	229.9	117.1	318	283.3	144.4
19	16.9	8.6	79	70.4	35.9	139	123.8	63.1	199	177.3	90.3	259	230.8	117.6	319	284.2	144.8
20	17.8	9.1	80	71.3	36.3	140	124.7	63.6	200	178.2	90.8	260	231.7	118.0	320	285.1	145.3
21	18.7	9.5	81	72.2	36.8	141	125.6	64.0	201	179.1	91.3	261	232.6	118.5	321	286.0	145.7
22	19.6	10.0	82	73.1	37.2	142	126.5	64.5	202	180.0	91.7	262	233.4	118.9	322	286.9	146.2
23	20.5	10.4	83	74.0	37.7	143	127.4	64.9	203	180.9	92.2	263	234.3	119.4	323	287.8	146.6
24	21.4	10.9	84	74.8	38.1	144	128.3	65.4	204	181.8	92.6	264	235.2	119.9	324	288.7	147.1
25	22.3	11.3	85	75.7	38.6	145	129.2	65.8	205	182.7	93.1	265	236.1	120.3	325	289.6	147.5
26	23.2	11.8	86	76.6	39.0	146	130.1	66.3	206	183.5	93.5	266	237.0	120.8	326	290.5	148.0
27	24.1	12.3	87	77.5	39.5	147	131.0	66.7	207	184.4	94.0	267	237.9	121.2	327	291.4	148.5
28	24.9	12.7	88	78.4	40.0	148	131.9	67.2	208	185.3	94.4	268	238.8	121.7	328	292.3	148.9
29	25.8	13.2	89	79.3	40.4	149	132.8	67.6	209	186.2	94.9	269	239.7	122.1	329	293.1	149.4
30	26.7	13.6	90	80.2	40.9	150	133.7	68.1	210	187.1	95.3	270	240.6	122.6	330	294.0	149.8
31	27.6	14.1	91	81.1	41.3	151	134.5	68.6	211	188.0	95.8	271	241.5	123.0	331	294.9	150.3
32	28.5	14.5	92	82.0	41.8	152	135.4	69.0	212	188.9	96.2	272	242.4	123.5	332	295.8	150.7
33	29.4	15.0	93	82.9	42.2	153	136.3	69.5	213	189.8	96.7	273	243.2	123.9	333	296.7	151.2
34	30.3	15.4	94	83.8	42.7	154	137.2	69.9	214	190.7	97.2	274	244.1	124.4	334	297.6	151.6
35	31.2	15.9	95	84.6	43.1	155	138.1	70.4	215	191.6	97.6	275	245.0	124.8	335	298.5	152.1
36	32.1	16.3	96	85.5	43.6	156	139.0	70.8	216	192.5	98.1	276	245.9	125.3	336	299.4	152.5
37	33.0	16.8	97	86.4	44.0	157	139.9	71.3	217	193.3	98.5	277	246.8	125.8	337	300.3	153.0
38	33.9	17.3	98	87.3	44.5	158	140.8	71.7	218	194.2	99.0	278	247.7	126.2	338	301.2	153.4
39	34.7	17.7	99	88.2	44.9	159	141.7	72.2	219	195.1	99.4	279	248.6	126.7	339	302.1	153.9
40	35.6	18.2	100	89.1	45.4	160	142.6	72.6	220	196.0	99.9	280	249.5	127.1	340	302.9	154.4
41	36.5	18.6	101	90.0	45.9	161	143.5	73.1	221	196.9	100.3	281	250.4	127.6	341	303.8	154.8
42	37.4	19.1	102	90.9	46.3	162	144.3	73.5	222	197.8	100.8	282	251.3	128.0	342	304.7	155.3
43	38.3	19.5	103	91.8	46.8	163	145.2	74.0	223	198.7	101.2	283	252.2	128.5	343	305.6	155.7
44	39.2	20.0	104	92.7	47.2	164	146.1	74.5	224	199.6	101.7	284	253.0	128.9	344	306.5	156.2
45	40.1	20.4	105	93.6	47.7	165	147.0	74.9	225	200.5	102.1	285	253.9	129.4	345	307.4	156.6
46	41.0	20.9	106	94.4	48.1	166	147.9	75.4	226	201.4	102.6	286	254.8	129.8	346	308.3	157.1
47	41.9	21.3	107	95.3	48.6	167	148.8	75.8	227	202.3	103.1	287	255.7	130.3	347	309.2	157.5
48	42.8	21.8	108	96.2	49.0	168	149.7	76.3	228	203.1	103.5	288	256.6	130.7	348	310.1	158.0
49	43.7	22.2	109	97.1	49.5	169	150.6	76.7	229	204.0	104.0	289	257.5	131.2	349	311.0	158.4
50	44.6	22.7	110	98.0	49.9	170	151.5	77.2	230	204.9	104.4	290	258.4	131.7	350	311.9	158.9
51	45.4	23.2	111	98.9	50.4	171	152.4	77.6	231	205.8	104.9	291	259.3	132.1	351	312.7	159.4
52	46.3	23.6	112	99.8	50.8	172	153.3	78.1	232	206.7	105.3	292	260.2	132.6	352	313.6	159.8
53	47.2	24.1	113	100.7	51.3	173	154.1	78.5	233	207.6	105.8	293	261.1	133.0	353	314.5	160.3
54	48.1	24.5	114	101.6	51.8	174	155.0	79.0	234	208.5	106.2	294	262.0	133.5	354	315.4	160.7
55	49.0	25.0	115	102.5	52.2	175	155.9	79.4	235	209.4	106.7	295	262.8	133.9	355	316.3	161.2
56	49.9	25.4	116	103.4	52.7	176	156.8	79.9	236	210.3	107.1	296	263.7	134.4	356	317.2	161.6
57	50.8	25.9	117	104.2	53.1	177	157.7	80.4	237	211.2	107.6	297	264.6	134.8	357	318.1	162.1
58	51.7	26.3	118	105.1	53.6	178	158.6	80.8	238	212.1	108.0	298	265.5	135.3	358	319.0	162.5
59	52.6	26.8	119	106.0	54.0	179	159.5	81.3	239	213.0	108.5	299	266.4	135.7	359	319.9	163.0
60	53.5	27.2	120	106.9	54.5	180	160.4	81.7	240	213.8	109.0	300	267.3	136.2	360	320.8	163.4
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	321·7	163·9	421	375·1	191·1	481	428·6	218·4	541	482·0	245·6	601	535·5	272·8	661	589·0	300·1
362	322·5	164·3	422	376·0	191·6	482	429·5	218·8	542	482·9	246·1	602	536·4	273·3	662	589·8	300·5
363	323·4	164·8	423	376·9	192·0	483	430·4	219·3	543	483·8	246·5	603	537·3	273·8	663	590·7	301·0
364	324·3	165·3	424	377·8	192·5	484	431·2	219·7	544	484·7	247·0	604	538·2	274·2	664	591·6	301·4
365	325·2	165·7	425	378·7	192·9	485	432·1	220·2	545	485·6	247·4	605	539·1	274·7	665	592·5	301·9
366	326·1	166·2	426	379·6	193·4	486	433·0	220·6	546	486·5	247·9	606	540·0	275·1	666	593·4	302·4
367	327·0	166·6	427	380·5	193·9	487	433·9	221·1	547	487·4	248·3	607	540·8	275·6	667	594·3	302·8
368	327·9	167·1	428	381·4	194·3	488	434·8	221·5	548	488·3	248·8	608	541·7	276·0	668	595·2	303·3
369	328·8	167·5	429	382·2	194·8	489	435·7	222·0	549	489·2	249·2	609	542·6	276·5	669	596·1	303·7
370	329·7	168·0	430	383·1	195·2	490	436·6	222·5	550	490·1	249·7	610	543·5	276·9	670	597·0	304·2
371	330·6	168·4	431	384·0	195·7	491	437·5	222·9	551	490·9	250·1	611	544·4	277·4	671	597·9	304·6
372	331·5	168·9	432	384·9	196·1	492	438·4	223·4	552	491·8	250·6	612	545·3	277·8	672	598·8	305·1
373	332·3	169·3	433	385·8	196·6	493	439·3	223·8	553	492·7	251·1	613	546·2	278·3	673	599·6	305·5
374	333·2	169·8	434	386·7	197·0	494	440·2	224·3	554	493·6	251·5	614	547·1	278·7	674	600·5	306·0
375	334·1	170·2	435	387·6	197·5	495	441·0	224·7	555	494·5	252·0	615	548·0	279·2	675	601·4	306·4
376	335·0	170·7	436	388·5	197·9	496	441·9	225·2	556	495·4	252·4	616	548·9	279·7	676	602·3	306·9
377	335·9	171·2	437	389·4	198·4	497	442·8	225·6	557	496·3	252·9	617	549·8	280·1	677	603·2	307·4
378	336·8	171·6	438	390·3	198·8	498	443·7	226·1	558	497·2	253·3	618	550·6	280·6	678	604·1	307·8
379	337·7	172·1	439	391·2	199·3	499	444·6	226·5	559	498·1	253·8	619	551·5	281·0	679	605·0	308·3
380	338·6	172·5	440	392·0	199·8	500	445·5	227·0	560	499·0	254·2	620	552·4	281·5	680	605·9	308·7
381	339·5	173·0	441	392·9	200·2	501	446·4	227·4	561	499·9	254·7	621	553·3	281·9	681	606·8	309·2
382	340·4	173·4	442	393·8	200·7	502	447·3	227·9	562	500·7	255·1	622	554·2	282·4	682	607·7	309·6
383	341·3	173·9	443	394·7	201·1	503	448·2	228·4	563	501·6	255·6	623	555·1	282·8	683	608·6	310·1
384	342·1	174·3	444	395·6	201·6	504	449·1	228·8	564	502·5	256·1	624	556·0	283·3	684	609·4	310·5
385	343·0	174·8	445	396·5	202·0	505	450·0	229·3	565	503·4	256·5	625	556·9	283·7	685	610·3	311·0
386	343·9	175·2	446	397·4	202·5	506	450·8	229·7	566	504·3	257·0	626	557·8	284·2	686	611·2	311·4
387	344·8	175·7	447	398·3	202·9	507	451·7	230·2	567	505·2	257·4	627	558·7	284·7	687	612·1	311·9
388	345·7	176·1	448	399·2	203·4	508	452·6	230·6	568	506·1	257·9	628	559·6	285·1	688	613·0	312·3
389	346·6	176·6	449	400·1	203·8	509	453·5	231·1	569	507·0	258·3	629	560·4	285·6	689	613·9	312·8
390	347·5	177·1	450	401·0	204·3	510	454·4	231·5	570	507·9	258·8	630	561·3	286·0	690	614·8	313·3
391	348·4	177·5	451	401·8	204·7	511	455·3	232·0	571	508·8	259·2	631	562·2	286·5	691	615·7	313·7
392	349·3	178·0	452	402·7	205·2	512	456·2	232·4	572	509·7	259·7	632	563·1	286·9	692	616·6	314·2
393	350·2	178·4	453	403·6	205·7	513	457·1	232·9	573	510·5	260·1	633	564·0	287·4	693	617·5	314·6
394	351·1	178·9	454	404·5	206·1	514	458·0	233·4	574	511·4	260·6	634	564·9	287·8	694	618·4	315·1
395	351·9	179·3	455	405·4	206·6	515	458·9	233·8	575	512·3	261·0	635	565·8	288·3	695	619·2	315·5
396	352·8	179·8	456	406·3	207·0	516	459·8	234·3	576	513·2	261·5	636	566·7	288·7	696	620·1	316·0
397	353·7	180·2	457	407·2	207·5	517	460·7	234·7	577	514·1	262·0	637	567·6	289·2	697	621·0	316·4
398	354·6	180·7	458	408·1	207·9	518	461·5	235·2	578	515·0	262·4	638	568·5	289·6	698	621·9	316·9
399	355·5	181·1	459	409·0	208·4	519	462·4	235·6	579	515·9	262·9	639	569·4	290·1	699	622·8	317·3
400	356·4	181·6	460	409·9	208·8	520	463·3	236·1	580	516·8	263·3	640	570·2	290·6	700	623·7	317·8
401	357·3	182·0	461	410·8	209·3	521	464·2	236·5	581	517·7	263·8	641	571·1	291·0	701	624·6	318·2
402	358·2	182·5	462	411·6	209·7	522	465·1	237·0	582	518·6	264·2	642	572·0	291·5	702	625·5	318·7
403	359·1	183·0	463	412·5	210·2	523	466·0	237·4	583	519·5	264·7	643	572·9	291·9	703	626·4	319·2
404	360·0	183·4	464	413·4	210·7	524	466·9	237·9	584	520·3	265·1	644	573·8	292·4	704	627·3	319·6
405	360·9	183·9	465	414·3	211·1	525	467·8	238·3	585	521·2	265·6	645	574·7	292·8	705	628·2	320·1
406	361·7	184·3	466	415·2	211·6	526	468·7	238·8	586	522·1	266·0	646	575·6	293·3	706	629·1	320·5
407	362·6	184·8	467	416·1	212·0	527	469·6	239·3	587	523·0	266·5	647	576·5	293·7	707	629·9	321·0
408	363·5	185·2	468	417·0	212·5	528	470·5	239·7	588	523·9	266·9	648	577·4	294·2	708	630·8	321·4
409	364·4	185·7	469	417·9	212·9	529	471·3	240·2	589	524·8	267·4	649	578·3	294·6	709	631·7	321·9
410	365·3	186·1	470	418·8	213·4	530	472·2	240·6	590	525·7	267·9	650	579·2	295·1	710	632·6	322·3
411	366·2	186·6	471	419·7	213·8	531	473·1	241·1	591	526·6	268·3	651	580·0	295·5	711	633·5	322·8
412	367·1	187·0	472	420·6	214·3	532	474·0	241·5	592	527·5	268·8	652	580·9	296·0	712	634·4	323·2
413	368·0	187·5	473	421·4	214·7	533	474·9	242·0	593	528·4	269·2	653	581·8	296·5	713	635·3	323·7
414	368·9	188·0	474	422·3	215·2	534	475·8	242·4	594	529·3	269·7	654	582·7	296·9	714	636·2	324·1
415	369·8	188·4	475	423·2	215·6	535	476·7	242·9	595	530·1	270·1	655	583·6	297·4	715	637·1	324·6
416	370·7	188·9	476	424·1	216·1	536	477·6	243·3	596	531·0	270·6	656	584·5	297·8	716	638·0	325·1
417	371·5	189·3	477	425·0	216·6	537	478·5	243·8	597	531·9	271·0	657	585·4	298·3	717	638·9	325·5
418	372·4	189·8	478	425·9	217·0	538	479·4	244·2	598	532·8	271·5	658	586·3	298·7	718	639·7	326·0
419	373·3	190·2	479	426·8	217·5	539	480·3	244·7	599	533·7	271·9	659	587·2	299·2	719	640·6	326·4
420	374·2	190·7	480	427·7	217·9	540	481·1	245·2	600	534·6	272·4	660	588·1	299·6	720	641·5	326·9

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	0.9	0.5	61	53.9	28.6	121	106.8	56.8	181	159.8	85.0	241	212.8	113.1	301	265.8	141.3
2	1.8	0.9	62	54.7	29.1	122	107.7	57.3	182	160.7	85.4	242	213.7	113.6	302	266.7	141.8
3	2.6	1.4	63	55.6	29.6	123	108.6	57.7	183	161.6	85.9	243	214.6	114.1	303	267.5	142.3
4	3.5	1.9	64	56.5	30.0	124	109.5	58.2	184	162.5	86.4	244	215.4	114.6	304	268.4	142.7
5	4.4	2.3	65	57.4	30.5	125	110.4	58.7	185	163.3	86.9	245	216.3	115.0	305	269.3	143.2
6	5.3	2.8	66	58.3	31.0	126	111.3	59.2	186	164.2	87.3	246	217.2	115.5	306	270.2	143.7
7	6.2	3.3	67	59.2	31.5	127	112.1	59.6	187	165.1	87.8	247	218.1	116.0	307	271.1	144.1
8	7.1	3.8	68	60.0	31.9	128	113.0	60.1	188	166.0	88.3	248	219.0	116.4	308	271.9	144.6
9	7.9	4.2	69	60.9	32.4	129	113.9	60.6	189	166.9	88.7	249	219.9	116.9	309	272.8	145.1
10	8.8	4.7	70	61.8	32.9	130	114.8	61.0	190	167.8	89.2	250	220.7	117.4	310	273.7	145.5
11	9.7	5.2	71	62.7	33.3	131	115.7	61.5	191	168.6	89.7	251	221.6	117.8	311	274.6	146.0
12	10.6	5.6	72	63.6	33.8	132	116.5	62.0	192	169.5	90.1	252	222.5	118.3	312	275.5	146.5
13	11.5	6.1	73	64.5	34.3	133	117.4	62.4	193	170.4	90.6	253	223.4	118.8	313	276.4	146.9
14	12.4	6.6	74	65.3	34.7	134	118.3	62.9	194	171.3	91.1	254	224.3	119.2	314	277.2	147.4
15	13.2	7.0	75	66.2	35.2	135	119.2	63.4	195	172.2	91.5	255	225.2	119.7	315	278.1	147.9
16	14.1	7.5	76	67.1	35.7	136	120.1	63.8	196	173.1	92.0	256	226.0	120.2	316	279.0	148.4
17	15.0	8.0	77	68.0	36.1	137	121.0	64.3	197	173.9	92.5	257	226.9	120.7	317	279.9	148.8
18	15.9	8.5	78	68.9	36.6	138	121.8	64.8	198	174.8	93.0	258	227.8	121.1	318	280.8	149.3
19	16.8	8.9	79	69.8	37.1	139	122.7	65.3	199	175.7	93.4	259	228.7	121.6	319	281.7	149.8
20	17.7	9.4	80	70.6	37.6	140	123.6	65.7	200	176.6	93.9	260	229.6	122.1	320	282.5	150.2
21	18.5	9.9	81	71.5	38.0	141	124.5	66.2	201	177.5	94.4	261	230.4	122.5	321	283.4	150.7
22	19.4	10.3	82	72.4	38.5	142	125.4	66.7	202	178.4	94.8	262	231.3	123.0	322	284.3	151.2
23	20.3	10.8	83	73.3	39.0	143	126.3	67.1	203	179.2	95.3	263	232.2	123.5	323	285.2	151.6
24	21.2	11.3	84	74.2	39.4	144	127.1	67.6	204	180.1	95.8	264	233.1	123.9	324	286.1	152.1
25	22.1	11.7	85	75.1	39.9	145	128.0	68.1	205	181.0	96.2	265	234.0	124.4	325	287.0	152.6
26	23.0	12.2	86	75.9	40.4	146	128.9	68.5	206	181.9	96.7	266	234.9	124.9	326	287.8	153.0
27	23.8	12.7	87	76.8	40.8	147	129.8	69.0	207	182.8	97.2	267	235.7	125.3	327	288.7	153.5
28	24.7	13.1	88	77.7	41.3	148	130.7	69.5	208	183.7	97.7	268	236.6	125.8	328	289.6	154.0
29	25.6	13.6	89	78.6	41.8	149	131.6	70.0	209	184.5	98.1	269	237.5	126.3	329	290.5	154.5
30	26.5	14.1	90	79.5	42.3	150	132.4	70.4	210	185.4	98.6	270	238.4	126.8	330	291.4	154.9
31	27.4	14.6	91	80.3	42.7	151	133.3	70.9	211	186.3	99.1	271	239.3	127.2	331	292.3	155.4
32	28.3	15.0	92	81.2	43.2	152	134.2	71.4	212	187.2	99.5	272	240.2	127.7	332	293.1	155.9
33	29.1	15.5	93	82.1	43.7	153	135.1	71.8	213	188.1	100.0	273	241.0	128.2	333	294.0	156.3
34	30.0	16.0	94	83.0	44.1	154	136.0	72.3	214	189.0	100.5	274	241.9	128.6	334	294.9	156.8
35	30.9	16.4	95	83.9	44.6	155	136.9	72.8	215	189.8	100.9	275	242.8	129.1	335	295.8	157.3
36	31.8	16.9	96	84.8	45.1	156	137.7	73.2	216	190.7	101.4	276	243.7	129.6	336	296.7	157.7
37	32.7	17.4	97	85.6	45.5	157	138.6	73.7	217	191.6	101.9	277	244.6	130.0	337	297.6	158.2
38	33.6	17.8	98	86.5	46.0	158	139.5	74.2	218	192.5	102.3	278	245.5	130.5	338	298.4	158.7
39	34.4	18.3	99	87.4	46.5	159	140.4	74.6	219	193.4	102.8	279	246.3	131.0	339	299.3	159.2
40	35.3	18.8	100	88.3	46.9	160	141.3	75.1	220	194.2	103.3	280	247.2	131.5	340	300.2	159.6
41	36.2	19.2	101	89.2	47.4	161	142.2	75.6	221	195.1	103.8	281	248.1	131.9	341	301.1	160.1
42	37.1	19.7	102	90.1	47.9	162	143.0	76.1	222	196.0	104.2	282	249.0	132.4	342	302.0	160.6
43	38.0	20.2	103	90.9	48.4	163	143.9	76.5	223	196.9	104.7	283	249.9	132.9	343	302.9	161.0
44	38.8	20.7	104	91.8	48.8	164	144.8	77.0	224	197.8	105.2	284	250.8	133.3	344	303.7	161.5
45	39.7	21.1	105	92.7	49.3	165	145.7	77.5	225	198.7	105.6	285	251.6	133.8	345	304.6	162.0
46	40.6	21.6	106	93.6	49.8	166	146.6	77.9	226	199.5	106.1	286	252.5	134.3	346	305.5	162.4
47	41.5	22.1	107	94.5	50.2	167	147.5	78.4	227	200.4	106.6	287	253.4	134.7	347	306.4	162.9
48	42.4	22.5	108	95.4	50.7	168	148.3	78.9	228	201.3	107.0	288	254.3	135.2	348	307.3	163.4
49	43.3	23.0	109	96.2	51.2	169	149.2	79.3	229	202.2	107.5	289	255.2	135.7	349	308.1	163.8
50	44.1	23.5	110	97.1	51.6	170	150.1	79.8	230	203.1	108.0	290	256.1	136.1	350	309.0	164.3
51	45.0	23.9	111	98.0	52.1	171	151.0	80.3	231	204.0	108.4	291	256.9	136.6	351	309.9	164.8
52	45.9	24.4	112	98.9	52.6	172	151.9	80.7	232	204.8	108.9	292	257.8	137.1	352	310.8	165.3
53	46.8	24.9	113	99.8	53.1	173	152.7	81.2	233	205.7	109.4	293	258.7	137.6	353	311.7	165.7
54	47.7	25.4	114	100.7	53.5	174	153.6	81.7	234	206.6	109.9	294	259.6	138.0	354	312.6	166.2
55	48.6	25.8	115	101.5	54.0	175	154.5	82.2	235	207.5	110.3	295	260.5	138.5	355	313.4	166.7
56	49.4	26.3	116	102.4	54.5	176	155.4	82.6	236	208.4	110.8	296	261.4	139.0	356	314.3	167.1
57	50.3	26.8	117	103.3	54.9	177	156.3	83.1	237	209.3	111.3	297	262.2	139.4	357	315.2	167.6
58	51.2	27.2	118	104.2	55.4	178	157.2	83.6	238	210.1	111.7	298	263.1	139.9	358	316.1	168.1
59	52.1	27.7	119	105.1	55.9	179	158.0	84.0	239	211.0	112.2	299	264.0	140.4	359	317.0	168.5
60	53.0	28.2	120	106.0	56.3	180	158.9	84.5	240	211.9	112.7	300	264.9	140.8	360	317.9	169.0
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	318.7	169.5	421	371.7	197.6	481	424.7	225.8	541	477.7	254.0	601	530.7	282.2	661	583.6	310.3
362	319.6	169.9	422	372.6	198.1	482	425.6	226.3	542	478.6	254.5	602	531.5	282.6	662	584.5	310.8
363	320.5	170.4	423	373.5	198.6	483	426.5	226.8	543	479.4	254.9	603	532.4	283.1	663	585.4	311.3
364	321.4	170.9	424	374.4	199.1	484	427.3	227.2	544	480.3	255.4	604	533.3	283.6	664	586.3	311.7
365	322.3	171.4	425	375.3	199.5	485	428.2	227.7	545	481.2	255.9	605	534.2	284.0	665	587.2	312.2
366	323.2	171.8	426	376.1	200.0	486	429.1	228.2	546	482.1	256.3	606	535.1	284.5	666	588.0	312.7
367	324.0	172.3	427	377.0	200.5	487	430.0	228.6	547	483.0	256.8	607	535.9	285.0	667	588.9	313.1
368	324.9	172.8	428	377.9	200.9	488	430.9	229.1	548	483.9	257.3	608	536.8	285.4	668	589.8	313.6
369	325.8	173.2	429	378.8	201.4	489	431.8	229.6	549	484.7	257.7	609	537.7	285.9	669	590.7	314.1
370	326.7	173.7	430	379.7	201.9	490	432.6	230.0	550	485.6	258.2	610	538.6	286.4	670	591.6	314.5
371	327.6	174.2	431	380.6	202.3	491	433.5	230.5	551	486.5	258.7	611	539.5	286.8	671	592.5	315.0
372	328.5	174.6	432	381.4	202.8	492	434.4	231.0	552	487.4	259.1	612	540.4	287.3	672	593.3	315.5
373	329.3	175.1	433	382.3	203.3	493	435.3	231.4	553	488.3	259.6	613	541.2	287.8	673	594.2	316.0
374	330.2	175.6	434	383.2	203.8	494	436.2	231.9	554	489.2	260.1	614	542.1	288.3	674	595.1	316.4
375	331.1	176.1	435	384.1	204.2	495	437.1	232.4	555	490.0	260.6	615	543.0	288.7	675	596.0	316.9
376	332.0	176.5	436	385.0	204.7	496	437.9	232.9	556	490.9	261.0	616	543.9	289.2	676	596.9	317.4
377	332.9	177.0	437	385.8	205.2	497	438.8	233.3	557	491.8	261.5	617	544.8	289.7	677	597.8	317.8
378	333.8	177.5	438	386.7	205.6	498	439.7	233.8	558	492.7	262.0	618	545.7	290.1	678	598.6	318.3
379	334.6	177.9	439	387.6	206.1	499	440.6	234.3	559	493.6	262.4	619	546.5	290.6	679	599.5	318.8
380	335.5	178.4	440	388.5	206.6	500	441.5	234.7	560	494.5	262.9	620	547.4	291.1	680	600.4	319.2
381	336.4	178.9	441	389.4	207.0	501	442.4	235.2	561	495.3	263.4	621	548.3	291.5	681	601.3	319.7
382	337.3	179.3	442	390.3	207.5	502	443.2	235.7	562	496.2	263.8	622	549.2	292.0	682	602.2	320.2
383	338.2	179.8	443	391.1	208.0	503	444.1	236.1	563	497.1	264.3	623	550.1	292.5	683	603.1	320.6
384	339.1	180.2	444	392.0	208.4	504	445.0	236.6	564	498.0	264.8	624	551.0	293.0	684	603.9	321.1
385	339.9	180.7	445	392.9	208.9	505	445.9	237.1	565	498.9	265.3	625	551.8	293.4	685	604.8	321.6
386	340.8	181.2	446	393.8	209.4	506	446.8	237.6	566	499.7	265.7	626	552.7	293.9	686	605.7	322.1
387	341.7	181.7	447	394.7	209.9	507	447.7	238.0	567	500.6	266.2	627	553.6	294.4	687	606.6	322.5
388	342.6	182.2	448	395.6	210.3	508	448.5	238.5	568	501.5	266.7	628	554.5	294.8	688	607.5	323.0
389	343.5	182.6	449	396.4	210.8	509	449.4	239.0	569	502.4	267.1	629	555.4	295.3	689	608.4	323.5
390	344.3	183.1	450	397.3	211.3	510	450.3	239.4	570	503.3	267.6	630	556.3	295.8	690	609.2	323.9
391	345.2	183.6	451	398.2	211.7	511	451.2	239.9	571	504.2	268.1	631	557.1	296.2	691	610.1	324.4
392	346.1	184.0	452	399.1	212.2	512	452.1	240.4	572	505.0	268.5	632	558.0	296.7	692	611.0	324.9
393	347.0	184.5	453	400.0	212.7	513	453.0	240.8	573	505.9	269.0	633	558.9	297.2	693	611.9	325.3
394	347.9	185.0	454	400.9	213.1	514	453.8	241.3	574	506.8	269.5	634	559.8	297.6	694	612.8	325.8
395	348.8	185.4	455	401.7	213.6	515	454.7	241.8	575	507.7	269.9	635	560.7	298.1	695	613.6	326.3
396	349.6	185.9	456	402.6	214.1	516	455.6	242.2	576	508.6	270.4	636	561.6	298.6	696	614.5	326.8
397	350.5	186.4	457	403.5	214.5	517	456.5	242.7	577	509.5	270.9	637	562.4	299.1	697	615.4	327.2
398	351.4	186.8	458	404.4	215.0	518	457.4	243.2	578	510.3	271.4	638	563.3	299.5	698	616.3	327.7
399	352.3	187.3	459	405.3	215.5	519	458.3	243.7	579	511.2	271.8	639	564.2	300.0	699	617.2	328.2
400	353.2	187.8	460	406.2	216.0	520	459.1	244.1	580	512.1	272.3	640	565.1	300.5	700	618.1	328.6
401	354.1	188.3	461	407.0	216.4	521	460.0	244.6	581	513.0	272.8	641	566.0	300.9	701	618.9	329.1
402	354.9	188.7	462	407.9	216.9	522	460.9	245.1	582	513.9	273.2	642	566.9	301.4	702	619.8	329.6
403	355.8	189.2	463	408.8	217.4	523	461.8	245.5	583	514.8	273.7	643	567.7	301.9	703	620.7	330.0
404	356.7	189.7	464	409.7	217.8	524	462.7	246.0	584	515.6	274.2	644	568.6	302.3	704	621.6	330.5
405	357.6	190.1	465	410.6	218.3	525	463.5	246.5	585	516.5	274.6	645	569.5	302.8	705	622.5	331.0
406	358.5	190.6	466	411.5	218.8	526	464.4	246.9	586	517.4	275.1	646	570.4	303.3	706	623.4	331.4
407	359.4	191.1	467	412.3	219.2	527	465.3	247.4	587	518.3	275.6	647	571.3	303.7	707	624.2	331.9
408	360.2	191.5	468	413.2	219.7	528	466.2	247.9	588	519.2	276.0	648	572.2	304.2	708	625.1	332.4
409	361.1	192.0	469	414.1	220.2	529	467.1	248.4	589	520.1	276.5	649	573.0	304.7	709	626.0	332.9
410	362.0	192.5	470	415.0	220.7	530	468.0	248.8	590	520.9	277.0	650	573.9	305.2	710	626.9	333.3
411	362.9	193.0	471	415.9	221.1	531	468.8	249.3	591	521.8	277.5	651	574.8	305.6	711	627.8	333.8
412	363.8	193.4	472	416.8	221.6	532	469.7	249.8	592	522.7	277.9	652	575.7	306.1	712	628.7	334.3
413	364.7	193.9	473	417.6	222.1	533	470.7	250.2	593	523.6	278.4	653	576.6	306.6	713	629.5	334.7
414	365.5	194.4	474	418.5	222.5	534	471.5	250.7	594	524.5	278.9	654	577.4	307.0	714	630.4	335.2
415	366.4	194.8	475	419.4	223.0	535	472.4	251.2	595	525.4	279.3	655	578.3	307.5	715	631.3	335.7
416	367.3	195.3	476	420.3	223.5	536	473.3	251.6	596	526.2	279.8	656	579.2	308.0	716	632.2	336.1
417	368.2	195.8	477	421.2	223.9	537	474.1	252.1	597	527.1	280.3	657	580.1	308.4	717	633.1	336.6
418	369.1	196.2	478	422.0	224.4	538	475.0	252.6	598	528.0	280.7	658	581.0	308.9	718	634.0	337.1
419	370.0	196.7	479	422.9	224.9	539	475.9	253.0	599	528.9	281.2	659	581.9	309.4	719	634.8	337.6
420	370.8	197.2	480	423.8	225.3	540	476.8	253.5	600	529.8	281.7	660	582.7	309.9	720	635.7	338.0
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep
1	0.9	0.5	61	53.4	29.6	121	105.8	58.7	181	158.3	87.8	241	210.8	116.8	301	263.3	145.9
2	1.7	1.0	62	54.2	30.1	122	106.7	59.1	182	159.2	88.2	242	211.7	117.3	302	264.1	146.4
3	2.6	1.5	63	55.1	30.5	123	107.6	59.6	183	160.1	88.7	243	212.5	117.8	303	265.0	146.9
4	3.5	1.9	64	56.0	31.0	124	108.5	60.1	184	160.9	89.2	244	213.4	118.3	304	265.9	147.4
5	4.4	2.4	65	56.9	31.5	125	109.3	60.6	185	161.8	89.7	245	214.3	118.8	305	266.8	147.9
6	5.2	2.9	66	57.7	32.0	126	110.2	61.1	186	162.7	90.2	246	215.2	119.3	306	267.6	148.4
7	6.1	3.4	67	58.6	32.5	127	111.1	61.6	187	163.6	90.7	247	216.0	119.7	307	268.5	148.8
8	7.0	3.9	68	59.5	33.0	128	112.0	62.1	188	164.4	91.1	248	216.9	120.2	308	269.4	149.3
9	7.9	4.4	69	60.3	33.5	129	112.8	62.5	189	165.3	91.6	249	217.8	120.7	309	270.3	149.8
10	8.7	4.8	70	61.2	33.9	130	113.7	63.0	190	166.2	92.1	250	218.7	121.2	310	271.1	150.3
11	9.6	5.3	71	62.1	34.4	131	114.6	63.5	191	167.1	92.6	251	219.5	121.7	311	272.0	150.8
12	10.5	5.8	72	63.0	34.9	132	115.4	64.0	192	167.9	93.1	252	220.4	122.2	312	272.9	151.3
13	11.4	6.3	73	63.8	35.4	133	116.3	64.5	193	168.8	93.6	253	221.3	122.7	313	273.8	151.7
14	12.2	6.8	74	64.7	35.9	134	117.2	65.0	194	169.7	94.1	254	222.2	123.1	314	274.6	152.2
15	13.1	7.3	75	65.6	36.4	135	118.1	65.4	195	170.6	94.5	255	223.0	123.6	315	275.5	152.7
16	14.0	7.8	76	66.5	36.8	136	118.9	65.9	196	171.4	95.0	256	223.9	124.1	316	276.4	153.2
17	14.9	8.2	77	67.3	37.3	137	119.8	66.4	197	172.3	95.5	257	224.8	124.6	317	277.3	153.7
18	15.7	8.7	78	68.2	37.8	138	120.7	66.9	198	173.2	96.0	258	225.7	125.1	318	278.1	154.2
19	16.6	9.2	79	69.1	38.3	139	121.6	67.4	199	174.0	96.5	259	226.5	125.6	319	279.0	154.7
20	17.5	9.7	80	70.0	38.8	140	122.4	67.9	200	174.9	97.0	260	227.4	126.1	320	279.9	155.1
21	18.4	10.2	81	70.8	39.3	141	123.3	68.4	201	175.8	97.4	261	228.3	126.5	321	280.8	155.6
22	19.2	10.7	82	71.7	39.8	142	124.2	68.8	202	176.7	97.9	262	229.2	127.0	322	281.6	156.1
23	20.1	11.2	83	72.6	40.2	143	125.1	69.3	203	177.5	98.4	263	230.0	127.5	323	282.5	156.6
24	21.0	11.6	84	73.5	40.7	144	125.9	69.8	204	178.4	98.9	264	230.9	128.0	324	283.4	157.1
25	21.9	12.1	85	74.3	41.2	145	126.8	70.3	205	179.3	99.4	265	231.8	128.5	325	284.3	157.6
26	22.7	12.6	86	75.2	41.7	146	127.7	70.8	206	180.2	99.9	266	232.6	129.0	326	285.1	158.0
27	23.6	13.1	87	76.1	42.2	147	128.6	71.3	207	181.0	100.4	267	233.5	129.4	327	286.0	158.5
28	24.5	13.6	88	77.0	42.7	148	129.4	71.8	208	181.9	100.8	268	234.4	129.9	328	286.9	159.0
29	25.4	14.1	89	77.8	43.1	149	130.3	72.2	209	182.8	101.3	269	235.3	130.4	329	287.7	159.5
30	26.2	14.5	90	78.7	43.6	150	131.2	72.7	210	183.7	101.8	270	236.1	130.9	330	288.6	160.0
31	27.1	15.0	91	79.6	44.1	151	132.1	73.2	211	184.5	102.3	271	237.0	131.4	331	289.5	160.5
32	28.0	15.5	92	80.5	44.6	152	132.9	73.7	212	185.4	102.8	272	237.9	131.9	332	290.4	161.0
33	28.9	16.0	93	81.3	45.1	153	133.8	74.2	213	186.3	103.3	273	238.8	132.4	333	291.2	161.4
34	29.7	16.5	94	82.2	45.6	154	134.7	74.7	214	187.2	103.7	274	239.6	132.8	334	292.1	161.9
35	30.6	17.0	95	83.1	46.1	155	135.6	75.1	215	188.0	104.2	275	240.5	133.3	335	293.0	162.4
36	31.5	17.5	96	84.0	46.5	156	136.4	75.6	216	188.9	104.7	276	241.4	133.8	336	293.9	162.9
37	32.4	17.9	97	84.8	47.0	157	137.3	76.1	217	189.8	105.2	277	242.3	134.3	337	294.7	163.4
38	33.2	18.4	98	85.7	47.5	158	138.2	76.6	218	190.7	105.7	278	243.1	134.8	338	295.6	163.9
39	34.1	18.9	99	86.6	48.0	159	139.1	77.1	219	191.5	106.2	279	244.0	135.3	339	296.5	164.4
40	35.0	19.4	100	87.5	48.5	160	139.9	77.6	220	192.4	106.7	280	244.9	135.7	340	297.4	164.8
41	35.9	19.9	101	88.3	49.0	161	140.8	78.1	221	193.3	107.1	281	245.8	136.2	341	298.2	165.3
42	36.7	20.4	102	89.2	49.5	162	141.7	78.5	222	194.2	107.6	282	246.6	136.7	342	299.1	165.8
43	37.6	20.8	103	90.1	49.9	163	142.6	79.0	223	195.0	108.1	283	247.5	137.2	343	300.0	166.3
44	38.5	21.3	104	91.0	50.4	164	143.4	79.5	224	195.9	108.6	284	248.4	137.7	344	300.9	166.8
45	39.4	21.8	105	91.8	50.9	165	144.3	80.0	225	196.8	109.1	285	249.3	138.2	345	301.7	167.3
46	40.2	22.3	106	92.7	51.4	166	145.2	80.5	226	197.7	109.6	286	250.1	138.7	346	302.6	167.7
47	41.1	22.8	107	93.6	51.9	167	146.1	81.0	227	198.5	110.1	287	251.0	139.1	347	303.5	168.2
48	42.0	23.3	108	94.5	52.4	168	146.9	81.4	228	199.4	110.5	288	251.9	139.6	348	304.4	168.7
49	42.9	23.8	109	95.3	52.8	169	147.8	81.9	229	200.3	111.0	289	252.8	140.1	349	305.2	169.2
50	43.7	24.2	110	96.2	53.3	170	148.7	82.4	230	201.2	111.5	290	253.6	140.6	350	306.1	169.7
51	44.6	24.7	111	97.1	53.8	171	149.6	82.9	231	202.0	112.0	291	254.5	141.1	351	307.0	170.2
52	45.5	25.2	112	98.0	54.3	172	150.4	83.4	232	202.9	112.5	292	255.4	141.6	352	307.9	170.7
53	46.4	25.7	113	98.8	54.8	173	151.3	83.9	233	203.8	113.0	293	256.3	142.0	353	308.7	171.1
54	47.2	26.2	114	99.7	55.3	174	152.2	84.4	234	204.7	113.4	294	257.1	142.5	354	309.6	171.6
55	48.1	26.7	115	100.6	55.8	175	153.1	84.8	235	205.5	113.9	295	258.0	143.0	355	310.5	172.1
56	49.0	27.1	116	101.5	56.2	176	153.9	85.3	236	206.4	114.4	296	258.9	143.5	356	311.4	172.6
57	49.9	27.6	117	102.3	56.7	177	154.8	85.8	237	207.3	114.9	297	259.8	144.0	357	312.2	173.1
58	50.7	28.1	118	103.2	57.2	178	155.7	86.3	238	208.2	115.4	298	260.6	144.5	358	313.1	173.6
59	51.6	28.6	119	104.1	57.7	179	156.6	86.8	239	209.0	115.9	299	261.5	145.0	359	314.0	174.0
60	52.5	29.1	120	105.0	58.2	180	157.4	87.3	240	209.9	116.4	300	262.4	145.4	360	314.9	174.5

D	Dep	Δl	D	Dep	Δl	D	Dep	Δl	D	Dep	Δl	D	Dep	Δl	D	Dep	Δl
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D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep
361	315.7	175.0	421	368.2	204.1	481	420.7	233.2	541	473.2	262.3	601	525.6	291.4	661	578.1	320.5
362	316.6	175.5	422	369.1	204.6	482	421.6	233.7	542	474.0	262.8	602	526.5	291.9	662	579.0	320.9
363	317.5	176.0	423	370.0	205.1	483	422.4	234.2	543	474.9	263.3	603	527.4	292.3	663	579.9	321.4
364	318.4	176.5	424	370.8	205.6	484	423.3	234.6	544	475.8	263.7	604	528.3	292.8	664	580.7	321.9
365	319.2	177.0	425	371.7	206.0	485	424.2	235.1	545	476.7	264.2	605	529.1	293.3	665	581.6	322.4
366	320.1	177.4	426	372.6	206.5	486	425.1	235.6	546	477.5	264.7	606	530.0	293.8	666	582.5	322.9
367	321.0	177.9	427	373.5	207.0	487	425.9	236.1	547	478.4	265.2	607	530.9	294.3	667	583.4	323.4
368	321.9	178.4	428	374.3	207.5	488	426.8	236.6	548	479.3	265.7	608	531.8	294.8	668	584.2	323.9
369	322.7	178.9	429	375.2	208.0	489	427.7	237.1	549	480.2	266.2	609	532.6	295.2	669	585.1	324.3
370	323.6	179.4	430	376.1	208.5	490	428.6	237.6	550	481.0	266.6	610	533.5	295.7	670	586.0	324.8
371	324.5	179.9	431	377.0	209.0	491	429.4	238.0	551	481.9	267.1	611	534.4	296.2	671	586.9	325.3
372	325.4	180.3	432	377.8	209.4	492	430.3	238.5	552	482.8	267.6	612	535.3	296.7	672	587.7	325.8
373	326.2	180.8	433	378.7	209.9	493	431.2	239.0	553	483.7	268.1	613	536.1	297.2	673	588.6	326.3
374	327.1	181.3	434	379.6	210.4	494	432.1	239.5	554	484.5	268.6	614	537.0	297.7	674	589.5	326.8
375	328.0	181.8	435	380.5	210.9	495	432.9	240.0	555	485.4	269.1	615	537.9	298.2	675	590.4	327.2
376	328.9	182.3	436	381.3	211.4	496	433.8	240.5	556	486.3	269.6	616	538.8	298.6	676	591.2	327.7
377	329.7	182.8	437	382.2	211.9	497	434.7	241.0	557	487.2	270.0	617	539.6	299.1	677	592.1	328.2
378	330.6	183.3	438	383.1	212.3	498	435.6	241.4	558	488.0	270.5	618	540.5	299.6	678	593.0	328.7
379	331.5	183.7	439	384.0	212.8	499	436.4	241.9	559	488.9	271.0	619	541.4	300.1	679	593.9	329.2
380	332.4	184.2	440	384.8	213.3	500	437.3	242.4	560	489.8	271.5	620	542.3	300.6	680	594.7	329.7
381	333.2	184.7	441	385.7	213.8	501	438.2	242.9	561	490.7	272.0	621	543.1	301.1	681	595.6	330.2
382	334.1	185.2	442	386.6	214.3	502	439.1	243.4	562	491.5	272.5	622	544.0	301.6	682	596.5	330.6
383	335.0	185.7	443	387.5	214.8	503	439.9	243.9	563	492.4	272.9	623	544.9	302.0	683	597.4	331.1
384	335.9	186.2	444	388.3	215.3	504	440.8	244.3	564	493.3	273.4	624	545.8	302.5	684	598.2	331.6
385	336.7	186.7	445	389.2	215.7	505	441.7	244.8	565	494.2	273.9	625	546.6	303.0	685	599.1	332.1
386	337.6	187.1	446	390.1	216.2	506	442.6	245.3	566	495.0	274.4	626	547.5	303.5	686	600.0	332.6
387	338.5	187.6	447	391.0	216.7	507	443.4	245.8	567	495.9	274.9	627	548.4	304.0	687	600.9	333.1
388	339.4	188.1	448	391.8	217.2	508	444.3	246.3	568	496.8	275.4	628	549.3	304.5	688	601.7	333.5
389	340.2	188.6	449	392.7	217.7	509	445.2	246.8	569	497.7	275.9	629	550.1	305.0	689	602.6	334.0
390	341.1	189.1	450	393.6	218.2	510	446.1	247.3	570	498.5	276.3	630	551.0	305.4	690	603.5	334.5
391	342.0	189.6	451	394.5	218.6	511	446.9	247.7	571	499.4	276.8	631	551.9	305.9	691	604.4	335.0
392	342.9	190.0	452	395.3	219.1	512	447.8	248.2	572	500.3	277.3	632	552.8	306.4	692	605.2	335.5
393	343.7	190.5	453	396.2	219.6	513	448.7	248.7	573	501.2	277.8	633	553.6	306.9	693	606.1	336.0
394	344.6	191.0	454	397.1	220.1	514	449.6	249.2	574	502.0	278.3	634	554.5	307.4	694	607.0	336.5
395	345.5	191.5	455	398.0	220.6	515	450.4	249.7	575	502.9	278.8	635	555.4	307.9	695	607.9	336.9
396	346.3	192.0	456	398.8	221.1	516	451.3	250.2	576	503.8	279.3	636	556.3	308.3	696	608.7	337.4
397	347.2	192.5	457	399.7	221.6	517	452.2	250.6	577	504.7	279.7	637	557.1	308.8	697	609.6	337.9
398	348.1	193.0	458	400.6	222.0	518	453.1	251.1	578	505.5	280.2	638	558.0	309.3	698	610.5	338.4
399	349.0	193.4	459	401.5	222.5	519	453.9	251.6	579	506.4	280.7	639	558.9	309.8	699	611.4	338.9
400	349.8	193.9	460	402.3	223.0	520	454.8	252.1	580	507.3	281.2	640	559.8	310.3	700	612.2	339.4
401	350.7	194.4	461	403.2	223.5	521	455.7	252.6	581	508.2	281.7	641	560.6	310.8	701	613.1	339.9
402	351.6	194.9	462	404.1	224.0	522	456.6	253.1	582	509.0	282.2	642	561.5	311.2	702	614.0	340.3
403	352.5	195.4	463	404.9	224.5	523	457.4	253.6	583	509.9	282.6	643	562.4	311.7	703	614.9	340.8
404	353.3	195.9	464	405.8	225.0	524	458.3	254.0	584	510.8	283.1	644	563.3	312.2	704	615.7	341.3
405	354.2	196.3	465	406.7	225.4	525	459.2	254.5	585	511.7	283.6	645	564.1	312.7	705	616.6	341.8
406	355.1	196.8	466	407.6	225.9	526	460.0	255.0	586	512.5	284.1	646	565.0	313.2	706	617.5	342.3
407	356.0	197.3	467	408.4	226.4	527	460.9	255.5	587	513.4	284.6	647	565.9	313.7	707	618.4	342.8
408	356.8	197.8	468	409.3	226.9	528	461.8	256.0	588	514.3	285.1	648	566.8	314.2	708	619.2	343.2
409	357.7	198.3	469	410.2	227.4	529	462.7	256.5	589	515.2	285.6	649	567.6	314.6	709	620.1	343.7
410	358.6	198.8	470	411.1	227.9	530	463.5	256.9	590	516.0	286.0	650	568.5	315.1	710	621.0	344.2
411	359.5	199.3	471	411.9	228.3	531	464.4	257.4	591	516.9	286.5	651	569.4	315.6	711	621.9	344.7
412	360.3	199.7	472	412.8	228.8	532	465.3	257.9	592	517.8	287.0	652	570.3	316.1	712	622.7	345.2
413	361.2	200.2	473	413.7	229.3	533	466.2	258.4	593	518.6	287.5	653	571.1	316.6	713	623.6	345.7
414	362.1	200.7	474	414.6	229.8	534	467.0	258.9	594	519.5	288.0	654	572.0	317.1	714	624.5	346.2
415	363.0	201.2	475	415.4	230.3	535	467.9	259.4	595	520.4	288.5	655	572.9	317.6	715	625.4	346.6
416	363.8	201.7	476	416.3	230.8	536	468.8	259.9	596	521.3	288.9	656	573.8	318.0	716	626.2	347.1
417	364.7	202.2	477	417.2	231.3	537	469.7	260.3	597	522.1	289.4	657	574.6	318.5	717	627.1	347.6
418	365.6	202.7	478	418.1	231.7	538	470.5	260.8	598	523.0	289.9	658	575.5	319.0	718	628.0	348.1
419	366.5	203.1	479	418.9	232.2	539	471.4	261.3	599	523.9	290.4	659	576.4	319.5	719	628.9	348.6
420	367.3	203.6	480	419.8	232.7	540	472.3	261.8	600	524.8	290.9	660	577.2	320.0	720	629.7	349.1

D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep
1	0.9	0.5	61	52.8	30.5	121	104.8	60.5	181	156.8	90.5	241	208.7	120.5	301	260.7	150.5
2	1.7	1.0	62	53.7	31.0	122	105.7	61.0	182	157.6	91.0	242	209.6	121.0	302	261.5	151.0
3	2.6	1.5	63	54.6	31.5	123	106.5	61.5	183	158.5	91.5	243	210.4	121.5	303	262.4	151.5
4	3.5	2.0	64	55.4	32.0	124	107.4	62.0	184	159.3	92.0	244	211.3	122.0	304	263.3	152.0
5	4.3	2.5	65	56.3	32.5	125	108.3	62.5	185	160.2	92.5	245	212.2	122.5	305	264.1	152.5
6	5.2	3.0	66	57.2	33.0	126	109.1	63.0	186	161.1	93.0	246	213.0	123.0	306	265.0	153.0
7	6.1	3.5	67	58.0	33.5	127	110.0	63.5	187	161.9	93.5	247	213.9	123.5	307	265.9	153.5
8	6.9	4.0	68	58.9	34.0	128	110.9	64.0	188	162.8	94.0	248	214.8	124.0	308	266.7	154.0
9	7.8	4.5	69	59.8	34.5	129	111.7	64.5	189	163.7	94.5	249	215.6	124.5	309	267.6	154.5
10	8.7	5.0	70	60.6	35.0	130	112.6	65.0	190	164.5	95.0	250	216.5	125.0	310	268.5	155.0
11	9.5	5.5	71	61.5	35.5	131	113.4	65.5	191	165.4	95.5	251	217.4	125.5	311	269.3	155.5
12	10.4	6.0	72	62.4	36.0	132	114.3	66.0	192	166.3	96.0	252	218.2	126.0	312	270.2	156.0
13	11.3	6.5	73	63.2	36.5	133	115.2	66.5	193	167.1	96.5	253	219.1	126.5	313	271.1	156.5
14	12.1	7.0	74	64.1	37.0	134	116.0	67.0	194	168.0	97.0	254	220.0	127.0	314	271.9	157.0
15	13.0	7.5	75	65.0	37.5	135	116.9	67.5	195	168.9	97.5	255	220.8	127.5	315	272.8	157.5
16	13.9	8.0	76	65.8	38.0	136	117.8	68.0	196	169.7	98.0	256	221.7	128.0	316	273.7	158.0
17	14.7	8.5	77	66.7	38.5	137	118.6	68.5	197	170.6	98.5	257	222.6	128.5	317	274.5	158.5
18	15.6	9.0	78	67.5	39.0	138	119.5	69.0	198	171.5	99.0	258	223.4	129.0	318	275.4	159.0
19	16.5	9.5	79	68.4	39.5	139	120.4	69.5	199	172.3	99.5	259	224.3	129.5	319	276.3	159.5
20	17.3	10.0	80	69.3	40.0	140	121.2	70.0	200	173.2	100.0	260	225.2	130.0	320	277.1	160.0
21	18.2	10.5	81	70.1	40.5	141	122.1	70.5	201	174.1	100.5	261	226.0	130.5	321	278.0	160.5
22	19.1	11.0	82	71.0	41.0	142	123.0	71.0	202	174.9	101.0	262	226.9	131.0	322	278.9	161.0
23	19.9	11.5	83	71.9	41.5	143	123.8	71.5	203	175.8	101.5	263	227.8	131.5	323	279.7	161.5
24	20.8	12.0	84	72.7	42.0	144	124.7	72.0	204	176.7	102.0	264	228.6	132.0	324	280.6	162.0
25	21.7	12.5	85	73.6	42.5	145	125.6	72.5	205	177.5	102.5	265	229.5	132.5	325	281.5	162.5
26	22.5	13.0	86	74.5	43.0	146	126.4	73.0	206	178.4	103.0	266	230.4	133.0	326	282.3	163.0
27	23.4	13.5	87	75.3	43.5	147	127.3	73.5	207	179.3	103.5	267	231.2	133.5	327	283.2	163.5
28	24.2	14.0	88	76.2	44.0	148	128.2	74.0	208	180.1	104.0	268	232.1	134.0	328	284.1	164.0
29	25.1	14.5	89	77.1	44.5	149	129.0	74.5	209	181.0	104.5	269	233.0	134.5	329	284.9	164.5
30	26.0	15.0	90	77.9	45.0	150	129.9	75.0	210	181.9	105.0	270	233.8	135.0	330	285.8	165.0
31	26.8	15.5	91	78.8	45.5	151	130.8	75.5	211	182.7	105.5	271	234.7	135.5	331	286.7	165.5
32	27.7	16.0	92	79.7	46.0	152	131.6	76.0	212	183.6	106.0	272	235.6	136.0	332	287.5	166.0
33	28.6	16.5	93	80.5	46.5	153	132.5	76.5	213	184.5	106.5	273	236.4	136.5	333	288.4	166.5
34	29.4	17.0	94	81.4	47.0	154	133.4	77.0	214	185.3	107.0	274	237.3	137.0	334	289.3	167.0
35	30.3	17.5	95	82.3	47.5	155	134.2	77.5	215	186.2	107.5	275	238.2	137.5	335	290.1	167.5
36	31.2	18.0	96	83.1	48.0	156	135.1	78.0	216	187.1	108.0	276	239.0	138.0	336	291.0	168.0
37	32.0	18.5	97	84.0	48.5	157	136.0	78.5	217	187.9	108.5	277	239.9	138.5	337	291.9	168.5
38	32.9	19.0	98	84.9	49.0	158	136.8	79.0	218	188.8	109.0	278	240.8	139.0	338	292.7	169.0
39	33.8	19.5	99	85.7	49.5	159	137.7	79.5	219	189.7	109.5	279	241.6	139.5	339	293.6	169.5
40	34.6	20.0	100	86.6	50.0	160	138.6	80.0	220	190.5	110.0	280	242.5	140.0	340	294.4	170.0
41	35.5	20.5	101	87.5	50.5	161	139.4	80.5	221	191.4	110.5	281	243.4	140.5	341	295.3	170.5
42	36.4	21.0	102	88.3	51.0	162	140.3	81.0	222	192.3	111.0	282	244.2	141.0	342	296.2	171.0
43	37.2	21.5	103	89.2	51.5	163	141.2	81.5	223	193.1	111.5	283	245.1	141.5	343	297.0	171.5
44	38.1	22.0	104	90.1	52.0	164	142.0	82.0	224	194.0	112.0	284	246.0	142.0	344	297.9	172.0
45	39.0	22.5	105	90.9	52.5	165	142.9	82.5	225	194.9	112.5	285	246.8	142.5	345	298.8	172.5
46	39.8	23.0	106	91.8	53.0	166	143.8	83.0	226	195.7	113.0	286	247.7	143.0	346	299.6	173.0
47	40.7	23.5	107	92.7	53.5	167	144.6	83.5	227	196.6	113.5	287	248.5	143.5	347	300.5	173.5
48	41.6	24.0	108	93.5	54.0	168	145.5	84.0	228	197.5	114.0	288	249.4	144.0	348	301.4	174.0
49	42.4	24.5	109	94.4	54.5	169	146.4	84.5	229	198.3	114.5	289	250.3	144.5	349	302.2	174.5
50	43.3	25.0	110	95.3	55.0	170	147.2	85.0	230	199.2	115.0	290	251.1	145.0	350	303.1	175.0
51	44.2	25.5	111	96.1	55.5	171	148.1	85.5	231	200.1	115.5	291	252.0	145.5	351	304.0	175.5
52	45.0	26.0	112	97.0	56.0	172	149.0	86.0	232	200.9	116.0	292	252.9	146.0	352	304.8	176.0
53	45.9	26.5	113	97.9	56.5	173	149.8	86.5	233	201.8	116.5	293	253.7	146.5	353	305.7	176.5
54	46.8	27.0	114	98.7	57.0	174	150.7	87.0	234	202.6	117.0	294	254.6	147.0	354	306.6	177.0
55	47.6	27.5	115	99.6	57.5	175	151.6	87.5	235	203.5	117.5	295	255.5	147.5	355	307.4	177.5
56	48.5	28.0	116	100.5	58.0	176	152.4	88.0	236	204.4	118.0	296	256.3	148.0	356	308.3	178.0
57	49.4	28.5	117	101.3	58.5	177	153.3	88.5	237	205.2	118.5	297	257.2	148.5	357	309.2	178.5
58	50.2	29.0	118	102.2	59.0	178	154.2	89.0	238	206.1	119.0	298	258.1	149.0	358	310.0	179.0
59	51.1	29.5	119	103.1	59.5	179	155.0	89.5	239	207.0	119.5	299	258.9	149.5	359	310.9	179.5
60	52.0	30.0	120	103.9	60.0	180	155.9	90.0	240	207.8	120.0	300	259.8	150.0	360	311.8	180.0

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	312.6	180.5	421	364.6	210.5	481	416.6	240.5	541	468.5	270.5	601	520.5	300.5	661	572.4	330.5
362	313.5	181.0	422	365.5	211.0	482	417.4	241.0	542	469.4	271.0	602	521.3	301.0	662	573.3	331.0
363	314.4	181.5	423	366.3	211.5	483	418.3	241.5	543	470.3	271.5	603	522.2	301.5	663	574.2	331.5
364	315.2	182.0	424	367.2	212.0	484	419.2	242.0	544	471.1	272.0	604	523.1	302.0	664	575.0	332.0
365	316.1	182.5	425	368.1	212.5	485	420.0	242.5	545	472.0	272.5	605	523.9	302.5	665	575.9	332.5
366	317.0	183.0	426	368.9	213.0	486	420.9	243.0	546	472.8	273.0	606	524.8	303.0	666	576.8	333.0
367	317.8	183.5	427	369.8	213.5	487	421.8	243.5	547	473.7	273.5	607	525.7	303.5	667	577.6	333.5
368	318.7	184.0	428	370.7	214.0	488	422.6	244.0	548	474.6	274.0	608	526.5	304.0	668	578.5	334.0
369	319.6	184.5	429	371.5	214.5	489	423.5	244.5	549	475.4	274.5	609	527.4	304.5	669	579.4	334.5
370	320.4	185.0	430	372.4	215.0	490	424.4	245.0	550	476.3	275.0	610	528.3	305.0	670	580.2	335.0
371	321.3	185.5	431	373.3	215.5	491	425.2	245.5	551	477.2	275.5	611	529.1	305.5	671	581.1	335.5
372	322.2	186.0	432	374.1	216.0	492	426.1	246.0	552	478.0	276.0	612	530.0	306.0	672	582.0	336.0
373	323.0	186.5	433	375.0	216.5	493	427.0	246.5	553	478.9	276.5	613	530.9	306.5	673	582.8	336.5
374	323.9	187.0	434	375.9	217.0	494	427.8	247.0	554	479.8	277.0	614	531.7	307.0	674	583.7	337.0
375	324.8	187.5	435	376.7	217.5	495	428.7	247.5	555	480.6	277.5	615	532.6	307.5	675	584.6	337.5
376	325.6	188.0	436	377.6	218.0	496	429.5	248.0	556	481.5	278.0	616	533.5	308.0	676	585.4	338.0
377	326.5	188.5	437	378.5	218.5	497	430.4	248.5	557	482.4	278.5	617	534.3	308.5	677	586.3	338.5
378	327.4	189.0	438	379.3	219.0	498	431.3	249.0	558	483.2	279.0	618	535.2	309.0	678	587.2	339.0
379	328.2	189.5	439	380.2	219.5	499	432.1	249.5	559	484.1	279.5	619	536.1	309.5	679	588.0	339.5
380	329.1	190.0	440	381.1	220.0	500	433.0	250.0	560	485.0	280.0	620	536.9	310.0	680	588.9	340.0
381	330.0	190.5	441	381.9	220.5	501	433.9	250.5	561	485.8	280.5	621	537.8	310.5	681	589.8	340.5
382	330.8	191.0	442	382.8	221.0	502	434.7	251.0	562	486.7	281.0	622	538.7	311.0	682	590.6	341.0
383	331.7	191.5	443	383.6	221.5	503	435.6	251.5	563	487.6	281.5	623	539.5	311.5	683	591.5	341.5
384	332.6	192.0	444	384.5	222.0	504	436.5	252.0	564	488.4	282.0	624	540.4	312.0	684	592.4	342.0
385	333.4	192.5	445	385.4	222.5	505	437.3	252.5	565	489.3	282.5	625	541.3	312.5	685	593.2	342.5
386	334.3	193.0	446	386.2	223.0	506	438.2	253.0	566	490.2	283.0	626	542.1	313.0	686	594.1	343.0
387	335.2	193.5	447	387.1	223.5	507	439.1	253.5	567	491.0	283.5	627	543.0	313.5	687	595.0	343.5
388	336.0	194.0	448	388.0	224.0	508	439.9	254.0	568	491.9	284.0	628	543.9	314.0	688	595.8	344.0
389	336.9	194.5	449	388.8	224.5	509	440.8	254.5	569	492.8	284.5	629	544.7	314.5	689	596.7	344.5
390	337.7	195.0	450	389.7	225.0	510	441.7	255.0	570	493.6	285.0	630	545.6	315.0	690	597.6	345.0
391	338.6	195.5	451	390.6	225.5	511	442.5	255.5	571	494.5	285.5	631	546.5	315.5	691	598.4	345.5
392	339.5	196.0	452	391.4	226.0	512	443.4	256.0	572	495.4	286.0	632	547.3	316.0	692	599.3	346.0
393	340.3	196.5	453	392.3	226.5	513	444.3	256.5	573	496.2	286.5	633	548.2	316.5	693	600.2	346.5
394	341.2	197.0	454	393.2	227.0	514	445.1	257.0	574	497.1	287.0	634	549.1	317.0	694	601.0	347.0
395	342.1	197.5	455	394.0	227.5	515	446.0	257.5	575	498.0	287.5	635	549.9	317.5	695	601.9	347.5
396	342.9	198.0	456	394.9	228.0	516	446.9	258.0	576	498.8	288.0	636	550.8	318.0	696	602.8	348.0
397	343.8	198.5	457	395.8	228.5	517	447.7	258.5	577	499.7	288.5	637	551.7	318.5	697	603.6	348.5
398	344.7	199.0	458	396.6	229.0	518	448.6	259.0	578	500.6	289.0	638	552.5	319.0	698	604.5	349.0
399	345.5	199.5	459	397.5	229.5	519	449.5	259.5	579	501.4	289.5	639	553.4	319.5	699	605.4	349.5
400	346.4	200.0	460	398.4	230.0	520	450.3	260.0	580	502.3	290.0	640	554.3	320.0	700	606.2	350.0
401	347.3	200.5	461	399.2	230.5	521	451.2	260.5	581	503.2	290.5	641	555.1	320.5	701	607.1	350.5
402	348.1	201.0	462	400.1	231.0	522	452.1	261.0	582	504.0	291.0	642	556.0	321.0	702	607.9	351.0
403	349.0	201.5	463	401.0	231.5	523	452.9	261.5	583	504.9	291.5	643	556.9	321.5	703	608.8	351.5
404	349.9	202.0	464	401.8	232.0	524	453.8	262.0	584	505.8	292.0	644	557.7	322.0	704	609.7	352.0
405	350.7	202.5	465	402.7	232.5	525	454.7	262.5	585	506.6	292.5	645	558.6	322.5	705	610.5	352.5
406	351.6	203.0	466	403.6	233.0	526	455.5	263.0	586	507.5	293.0	646	559.5	323.0	706	611.4	353.0
407	352.5	203.5	467	404.4	233.5	527	456.4	263.5	587	508.4	293.5	647	560.3	323.5	707	612.3	353.5
408	353.3	204.0	468	405.3	234.0	528	457.3	264.0	588	509.2	294.0	648	561.2	324.0	708	613.1	354.0
409	354.2	204.5	469	406.2	234.5	529	458.1	264.5	589	510.1	294.5	649	562.1	324.5	709	614.0	354.5
410	355.1	205.0	470	407.0	235.0	530	459.0	265.0	590	511.0	295.0	650	562.9	325.0	710	614.9	355.0
411	355.9	205.5	471	407.9	235.5	531	459.9	265.5	591	511.8	295.5	651	563.8	325.5	711	615.7	355.5
412	356.8	206.0	472	408.8	236.0	532	460.7	266.0	592	512.7	296.0	652	564.6	326.0	712	616.6	356.0
413	357.7	206.5	473	409.6	236.5	533	461.6	266.5	593	513.6	296.5	653	565.5	326.5	713	617.5	356.5
414	358.5	207.0	474	410.5	237.0	534	462.5	267.0	594	514.4	297.0	654	566.4	327.0	714	618.3	357.0
415	359.4	207.5	475	411.4	237.5	535	463.3	267.5	595	515.3	297.5	655	567.2	327.5	715	619.2	357.5
416	360.3	208.0	476	412.2	238.0	536	464.2	268.0	596	516.2	298.0	656	568.1	328.0	716	620.1	358.0
417	361.1	208.5	477	413.1	238.5	537	465.1	268.5	597	517.0	298.5	657	569.0	328.5	717	620.9	358.5
418	362.0	209.0	478	414.0	239.0	538	465.9	269.0	598	517.9	299.0	658	569.8	329.0	718	621.8	359.0
419	362.9	209.5	479	414.8	239.5	539	466.8	269.5	599	518.7	299.5	659	570.7	329.5	719	622.7	359.5
420	363.7	210.0	480	415.7	240.0	540	467.7	270.0	600	519.6	300.0	660	571.6	330.0	720	623.5	360.0

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	0.9	0.5	61	52.3	31.4	121	103.7	62.3	181	155.1	93.2	241	206.6	124.1	301	258.0	155.0
2	1.7	1.0	62	53.1	31.9	122	104.6	62.8	182	156.0	93.7	242	207.4	124.6	302	258.9	155.5
3	2.6	1.5	63	54.0	32.4	123	105.4	63.3	183	156.9	94.3	243	208.3	125.2	303	259.7	156.1
4	3.4	2.1	64	54.9	33.0	124	106.3	63.9	184	157.7	94.8	244	209.1	125.7	304	260.6	156.6
5	4.3	2.6	65	55.7	33.5	125	107.1	64.4	185	158.6	95.3	245	210.0	126.2	305	261.4	157.1
6	5.1	3.1	66	56.6	34.0	126	108.0	64.9	186	159.4	95.8	246	210.9	126.7	306	262.3	157.6
7	6.0	3.6	67	57.4	34.5	127	108.9	65.4	187	160.3	96.3	247	211.7	127.2	307	263.2	158.1
8	6.9	4.1	68	58.3	35.0	128	109.7	65.9	188	161.1	96.8	248	212.6	127.7	308	264.0	158.6
9	7.7	4.6	69	59.1	35.5	129	110.6	66.4	189	162.0	97.3	249	213.4	128.2	309	264.9	159.1
10	8.6	5.2	70	60.0	36.1	130	111.4	67.0	190	162.9	97.9	250	214.3	128.8	310	265.7	159.7
11	9.4	5.7	71	60.9	36.6	131	112.3	67.5	191	163.7	98.4	251	215.1	129.3	311	266.6	160.2
12	10.3	6.2	72	61.7	37.1	132	113.1	68.0	192	164.6	98.9	252	216.0	129.8	312	267.4	160.7
13	11.1	6.7	73	62.6	37.6	133	114.0	68.5	193	165.4	99.4	253	216.9	130.3	313	268.3	161.2
14	12.0	7.2	74	63.4	38.1	134	114.9	69.0	194	166.3	99.9	254	217.7	130.8	314	269.2	161.7
15	12.9	7.7	75	64.3	38.6	135	115.7	69.5	195	167.1	100.4	255	218.6	131.3	315	270.0	162.2
16	13.7	8.2	76	65.1	39.1	136	116.6	70.0	196	168.0	100.9	256	219.4	131.8	316	270.9	162.8
17	14.6	8.8	77	66.0	39.7	137	117.4	70.6	197	168.9	101.5	257	220.3	132.4	317	271.7	163.3
18	15.4	9.3	78	66.9	40.2	138	118.3	71.1	198	169.7	102.0	258	221.1	132.9	318	272.6	163.8
19	16.3	9.8	79	67.7	40.7	139	119.1	71.6	199	170.6	102.5	259	222.0	133.4	319	273.4	164.3
20	17.1	10.3	80	68.6	41.2	140	120.0	72.1	200	171.4	103.0	260	222.9	133.9	320	274.3	164.8
21	18.0	10.8	81	69.4	41.7	141	120.9	72.6	201	172.3	103.5	261	223.7	134.4	321	275.2	165.3
22	18.9	11.3	82	70.3	42.2	142	121.7	73.1	202	173.1	104.0	262	224.6	134.9	322	276.0	165.8
23	19.7	11.8	83	71.1	42.7	143	122.6	73.7	203	174.0	104.6	263	225.4	135.5	323	276.9	166.4
24	20.6	12.4	84	72.0	43.3	144	123.4	74.2	204	174.9	105.1	264	226.3	136.0	324	277.7	166.9
25	21.4	12.9	85	72.9	43.8	145	124.3	74.7	205	175.7	105.6	265	227.1	136.5	325	278.6	167.4
26	22.3	13.4	86	73.7	44.3	146	125.1	75.2	206	176.6	106.1	266	228.0	137.0	326	279.4	167.9
27	23.1	13.9	87	74.6	44.8	147	126.0	75.7	207	177.4	106.6	267	228.9	137.5	327	280.3	168.4
28	24.0	14.4	88	75.4	45.3	148	126.9	76.2	208	178.3	107.1	268	229.7	138.0	328	281.2	168.9
29	24.9	14.9	89	76.3	45.8	149	127.7	76.7	209	179.1	107.6	269	230.6	138.5	329	282.0	169.4
30	25.7	15.5	90	77.1	46.4	150	128.6	77.3	210	180.0	108.2	270	231.4	139.1	330	282.9	170.0
31	26.6	16.0	91	78.0	46.9	151	129.4	77.8	211	180.9	108.7	271	232.3	139.6	331	283.7	170.5
32	27.4	16.5	92	78.9	47.4	152	130.3	78.3	212	181.7	109.2	272	233.1	140.1	332	284.6	171.0
33	28.3	17.0	93	79.7	47.9	153	131.1	78.8	213	182.6	109.7	273	234.0	140.6	333	285.4	171.5
34	29.1	17.5	94	80.6	48.4	154	132.0	79.3	214	183.4	110.2	274	234.9	141.1	334	286.3	172.0
35	30.0	18.0	95	81.4	48.9	155	132.9	79.8	215	184.3	110.7	275	235.7	141.6	335	287.2	172.5
36	30.9	18.5	96	82.3	49.4	156	133.7	80.3	216	185.1	111.2	276	236.6	142.2	336	288.0	173.1
37	31.7	19.1	97	83.1	50.0	157	134.6	80.9	217	186.0	111.8	277	237.4	142.7	337	288.9	173.6
38	32.6	19.6	98	84.0	50.5	158	135.4	81.4	218	186.9	112.3	278	238.3	143.2	338	289.7	174.1
39	33.4	20.1	99	84.9	51.0	159	136.3	81.9	219	187.7	112.8	279	239.1	143.7	339	290.6	174.6
40	34.3	20.6	100	85.7	51.5	160	137.1	82.4	220	188.6	113.3	280	240.0	144.2	340	291.4	175.1
41	35.1	21.1	101	86.6	52.0	161	138.0	82.9	221	189.4	113.8	281	240.9	144.7	341	292.3	175.6
42	36.0	21.6	102	87.4	52.5	162	138.9	83.4	222	190.3	114.3	282	241.7	145.2	342	293.2	176.1
43	36.9	22.1	103	88.3	53.0	163	139.7	84.0	223	191.1	114.9	283	242.6	145.8	343	294.0	176.7
44	37.7	22.7	104	89.1	53.6	164	140.6	84.5	224	192.0	115.4	284	243.4	146.3	344	294.9	177.2
45	38.6	23.2	105	90.0	54.1	165	141.4	85.0	225	192.9	115.9	285	244.3	146.8	345	295.7	177.7
46	39.4	23.7	106	90.9	54.6	166	142.3	85.5	226	193.7	116.4	286	245.1	147.3	346	296.6	178.2
47	40.3	24.2	107	91.7	55.1	167	143.1	86.0	227	194.6	116.9	287	246.0	147.8	347	297.4	178.7
48	41.1	24.7	108	92.6	55.6	168	144.0	86.5	228	195.4	117.4	288	246.9	148.3	348	298.3	179.2
49	42.0	25.2	109	93.4	56.1	169	144.9	87.0	229	196.3	117.9	289	247.7	148.8	349	299.2	179.7
50	42.9	25.8	110	94.3	56.7	170	145.7	87.6	230	197.1	118.5	290	248.6	149.4	350	300.0	180.3
51	43.7	26.3	111	95.1	57.2	171	146.6	88.1	231	198.0	119.0	291	249.4	149.9	351	300.9	180.8
52	44.6	26.8	112	95.0	57.7	172	147.4	88.6	232	198.9	119.5	292	250.3	150.4	352	301.7	181.3
53	45.4	27.3	113	96.9	58.2	173	148.3	89.1	233	199.7	120.0	293	251.1	150.9	353	302.6	181.8
54	46.3	27.8	114	97.7	58.7	174	149.1	89.6	234	200.6	120.5	294	252.0	151.4	354	303.4	182.3
55	47.1	28.3	115	98.6	59.2	175	150.0	90.1	235	201.4	121.0	295	252.9	151.9	355	304.3	182.8
56	48.0	28.8	116	99.4	59.7	176	150.9	90.6	236	202.3	121.5	296	253.7	152.5	356	305.2	183.4
57	48.9	29.4	117	100.3	60.3	177	151.7	91.2	237	203.1	122.1	297	254.6	153.0	357	306.0	183.9
58	49.7	29.9	118	101.1	60.8	178	152.6	91.7	238	204.0	122.6	298	255.4	153.5	358	306.9	184.4
59	50.6	30.4	119	102.0	61.3	179	153.4	92.2	239	204.9	123.1	299	256.3	154.0	359	307.7	184.9
60	51.4	30.9	120	102.9	61.8	180	154.3	92.7	240	205.7	123.6	300	257.2	154.5	360	308.6	185.4

D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI
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D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	309.4	185.9	421	360.9	216.8	481	412.3	247.7	541	463.7	278.6	601	515.2	309.5	661	566.6	340.4
362	310.3	186.4	422	361.7	217.3	482	413.2	248.2	542	464.6	279.2	602	516.0	310.1	662	567.4	341.0
363	311.2	187.0	423	362.6	217.9	483	414.0	248.8	543	465.4	279.7	603	516.9	310.6	663	568.3	341.5
364	312.0	187.5	424	363.4	218.4	484	414.9	249.3	544	466.3	280.2	604	517.7	311.1	664	569.2	342.0
365	312.9	188.0	425	364.3	218.9	485	415.7	249.8	545	467.2	280.7	605	518.6	311.6	665	570.0	342.5
366	313.7	188.5	426	365.2	219.4	486	416.6	250.3	546	468.0	281.2	606	519.4	312.1	666	570.9	343.0
367	314.6	189.0	427	366.0	219.9	487	417.4	250.8	547	468.9	281.7	607	520.3	312.6	667	571.7	343.5
368	315.4	189.5	428	366.9	220.4	488	418.3	251.3	548	469.7	282.2	608	521.2	313.1	668	572.6	344.0
369	316.3	190.0	429	367.7	221.0	489	419.2	251.9	549	470.6	282.8	609	522.0	313.7	669	573.4	344.6
370	317.2	190.6	430	368.6	221.5	490	420.0	252.4	550	471.4	283.3	610	522.9	314.2	670	574.3	345.1
371	318.0	191.1	431	369.4	222.0	491	420.9	252.9	551	472.3	283.8	611	523.7	314.7	671	575.2	345.6
372	318.9	191.6	432	370.3	222.5	492	421.7	253.4	552	473.2	284.3	612	524.6	315.2	672	576.0	346.1
373	319.7	192.1	433	371.2	223.0	493	422.6	253.9	553	474.0	284.8	613	525.4	315.7	673	576.9	346.6
374	320.6	192.6	434	372.0	223.5	494	423.4	254.4	554	474.9	285.3	614	526.3	316.2	674	577.7	347.1
375	321.4	193.1	435	372.9	224.0	495	424.3	254.9	555	475.7	285.8	615	527.2	316.7	675	578.6	347.7
376	322.3	193.7	436	373.7	224.6	496	425.2	255.5	556	476.6	286.4	616	528.0	317.3	676	579.4	348.2
377	323.2	194.2	437	374.6	225.1	497	426.0	256.0	557	477.4	286.9	617	528.9	317.8	677	580.3	348.7
378	324.0	194.7	438	375.4	225.6	498	426.9	256.5	558	478.3	287.4	618	529.7	318.3	678	581.2	349.2
379	324.9	195.2	439	376.3	226.1	499	427.7	257.0	559	479.2	287.9	619	530.6	318.8	679	582.0	349.7
380	325.7	195.7	440	377.2	226.6	500	428.6	257.5	560	480.0	288.4	620	531.4	319.3	680	582.9	350.2
381	326.6	196.2	441	378.0	227.1	501	429.4	258.0	561	480.9	288.9	621	532.3	319.8	681	583.7	350.7
382	327.4	196.7	442	378.9	227.6	502	430.3	258.5	562	481.7	289.5	622	533.2	320.4	682	584.6	351.3
383	328.3	197.3	443	379.7	228.2	503	431.2	259.1	563	482.6	290.0	623	534.0	320.9	683	585.4	351.8
384	329.2	197.8	444	380.6	228.7	504	432.0	259.6	564	483.4	290.5	624	534.9	321.4	684	586.3	352.3
385	330.0	198.3	445	381.4	229.2	505	432.9	260.1	565	484.3	291.0	625	535.7	321.9	685	587.2	352.8
386	330.9	198.8	446	382.3	229.7	506	433.7	260.6	566	485.2	291.5	626	536.6	322.4	686	588.0	353.3
387	331.7	199.3	447	383.2	230.2	507	434.6	261.1	567	486.0	292.0	627	537.4	322.9	687	588.9	353.8
388	332.6	199.8	448	384.0	230.7	508	435.4	261.6	568	486.9	292.5	628	538.3	323.4	688	589.7	354.3
389	333.4	200.3	449	384.9	231.3	509	436.3	262.2	569	487.7	293.1	629	539.2	324.0	689	590.6	354.9
390	334.3	200.9	450	385.7	231.8	510	437.2	262.7	570	488.6	293.6	630	540.0	324.5	690	591.4	355.4
391	335.2	201.4	451	386.6	232.3	511	438.0	263.2	571	489.4	294.1	631	540.9	325.0	691	592.3	355.9
392	336.0	201.9	452	387.4	232.8	512	438.9	263.7	572	490.3	294.6	632	541.7	325.5	692	593.2	356.4
393	336.9	202.4	453	388.3	233.3	513	439.7	264.2	573	491.2	295.1	633	542.6	326.0	693	594.0	356.9
394	337.7	202.9	454	389.2	233.8	514	440.6	264.7	574	492.0	295.6	634	543.4	326.5	694	594.9	357.4
395	338.6	203.4	455	390.0	234.3	515	441.4	265.2	575	492.9	296.1	635	544.3	327.0	695	595.7	358.0
396	339.4	204.0	456	390.9	234.9	516	442.3	265.8	576	493.7	296.7	636	545.2	327.6	696	596.6	358.5
397	340.3	204.5	457	391.7	235.4	517	443.2	266.3	577	494.6	297.2	637	546.0	328.1	697	597.4	359.0
398	341.2	205.0	458	392.6	235.9	518	444.0	266.8	578	495.4	297.7	638	546.9	328.6	698	598.3	359.5
399	342.0	205.5	459	393.4	236.4	519	444.9	267.3	579	496.3	298.2	639	547.7	329.1	699	599.2	360.0
400	342.9	206.0	460	394.3	236.9	520	445.7	267.8	580	497.2	298.7	640	548.6	329.6	700	600.0	360.5
401	343.7	206.5	461	395.2	237.4	521	446.6	268.3	581	498.0	299.2	641	549.4	330.1	701	600.9	361.0
402	344.6	207.0	462	396.0	237.9	522	447.4	268.8	582	498.9	299.8	642	550.3	330.7	702	601.7	361.6
403	345.4	207.6	463	396.9	238.5	523	448.3	269.4	583	499.7	300.3	643	551.2	331.2	703	602.6	362.1
404	346.3	208.1	464	397.7	239.0	524	449.2	269.9	584	500.6	300.8	644	552.0	331.7	704	603.4	362.6
405	347.2	208.6	465	398.6	239.5	525	450.0	270.4	585	501.4	301.3	645	552.9	332.2	705	604.3	363.1
406	348.0	209.1	466	399.4	240.0	526	450.9	270.9	586	502.3	301.8	646	553.7	332.7	706	605.2	363.6
407	348.9	209.6	467	400.3	240.5	527	451.7	271.4	587	503.2	302.3	647	554.6	333.2	707	606.0	364.1
408	349.7	210.1	468	401.2	241.0	528	452.6	271.9	588	504.0	302.8	648	555.4	333.7	708	606.9	364.6
409	350.6	210.7	469	402.0	241.6	529	453.4	272.5	589	504.9	303.4	649	556.3	334.3	709	607.7	365.2
410	351.4	211.2	470	402.9	242.1	530	454.3	273.0	590	505.7	303.9	650	557.2	334.8	710	608.6	365.7
411	352.3	211.7	471	403.7	242.6	531	455.2	273.5	591	506.6	304.4	651	558.0	335.3	711	609.4	366.2
412	353.2	212.2	472	404.6	243.1	532	456.0	274.0	592	507.4	304.9	652	558.9	335.8	712	610.3	366.7
413	354.0	212.7	473	405.4	243.6	533	456.9	274.5	593	508.3	305.4	653	559.7	336.3	713	611.2	367.2
414	354.9	213.2	474	406.3	244.1	534	457.7	275.0	594	509.2	305.9	654	560.6	336.8	714	612.0	367.7
415	355.7	213.7	475	407.2	244.6	535	458.6	275.5	595	510.0	306.4	655	561.4	337.3	715	612.9	368.3
416	356.6	214.3	476	408.0	245.2	536	459.4	276.1	596	510.9	307.0	656	562.3	337.9	716	613.7	368.8
417	357.4	214.8	477	408.9	245.7	537	460.3	276.6	597	511.7	307.5	657	563.2	338.4	717	614.6	369.3
418	358.3	215.3	478	409.7	246.2	538	461.2	277.1	598	512.6	308.0	658	564.0	338.9	718	615.4	369.8
419	359.2	215.8	479	410.6	246.7	539	462.0	277.6	599	513.4	308.5	659	564.9	339.4	719	616.3	370.3
420	360.0	216.3	480	411.4	247.2	540	462.9	278.1	600	514.3	309.0	660	565.7	339.9	720	617.2	370.8

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	0.8	0.5	61	51.7	32.3	121	102.6	64.1	181	153.5	95.9	241	204.4	127.7	301	255.3	159.5
2	1.7	1.1	62	52.6	32.9	122	103.5	64.7	182	154.3	96.4	242	205.2	128.2	302	256.1	160.0
3	2.5	1.6	63	53.4	33.4	123	104.3	65.2	183	155.2	97.0	243	206.1	128.8	303	257.0	160.6
4	3.4	2.1	64	54.3	33.9	124	105.2	65.7	184	156.0	97.5	244	206.9	129.3	304	257.8	161.1
5	4.2	2.6	65	55.1	34.4	125	106.0	66.2	185	156.9	98.0	245	207.8	129.8	305	258.7	161.6
6	5.1	3.2	66	56.0	35.0	126	106.9	66.8	186	157.7	98.6	246	208.6	130.4	306	259.5	162.2
7	5.9	3.7	67	56.8	35.5	127	107.7	67.3	187	158.6	99.1	247	209.5	130.9	307	260.4	162.7
8	6.8	4.2	68	57.7	36.0	128	108.6	67.8	188	159.4	99.6	248	210.3	131.4	308	261.2	163.2
9	7.6	4.8	69	58.5	36.6	129	109.4	68.4	189	160.3	100.2	249	211.2	131.9	309	262.0	163.7
10	8.5	5.3	70	59.4	37.1	130	110.2	68.9	190	161.1	100.7	250	212.0	132.5	310	262.9	164.3
11	9.3	5.8	71	60.2	37.6	131	111.1	69.4	191	162.0	101.2	251	212.9	133.0	311	263.7	164.8
12	10.2	6.4	72	61.1	38.2	132	111.9	69.9	192	162.8	101.7	252	213.7	133.5	312	264.6	165.3
13	11.0	6.9	73	61.9	38.7	133	112.8	70.5	193	163.7	102.3	253	214.6	134.1	313	265.4	165.9
14	11.9	7.4	74	62.8	39.2	134	113.6	71.0	194	164.5	102.8	254	215.4	134.6	314	266.3	166.4
15	12.7	7.9	75	63.6	39.7	135	114.5	71.5	195	165.4	103.3	255	216.3	135.1	315	267.1	166.9
16	13.6	8.5	76	64.5	40.3	136	115.3	72.1	196	166.2	103.9	256	217.1	135.7	316	268.0	167.5
17	14.4	9.0	77	65.3	40.8	137	116.2	72.6	197	167.1	104.4	257	217.9	136.2	317	268.8	168.0
18	15.3	9.5	78	66.1	41.3	138	117.0	73.1	198	167.9	104.9	258	218.8	136.7	318	269.7	168.5
19	16.1	10.1	79	67.0	41.9	139	117.9	73.7	199	168.8	105.5	259	219.6	137.2	319	270.5	169.0
20	17.0	10.6	80	67.8	42.4	140	118.7	74.2	200	169.6	106.0	260	220.5	137.8	320	271.4	169.6
21	17.8	11.1	81	68.7	42.9	141	119.6	74.7	201	170.5	106.5	261	221.3	138.3	321	272.2	170.1
22	18.7	11.7	82	69.5	43.5	142	120.4	75.2	202	171.3	107.0	262	222.2	138.8	322	273.1	170.6
23	19.5	12.2	83	70.4	44.0	143	121.3	75.8	203	172.2	107.6	263	223.0	139.4	323	273.9	171.2
24	20.4	12.7	84	71.2	44.5	144	122.1	76.3	204	173.0	108.1	264	223.9	139.9	324	274.8	171.7
25	21.2	13.2	85	72.1	45.0	145	123.0	76.8	205	173.8	108.6	265	224.7	140.4	325	275.6	172.2
26	22.0	13.8	86	72.9	45.6	146	123.8	77.4	206	174.7	109.2	266	225.6	141.0	326	276.5	172.8
27	22.9	14.3	87	73.8	46.1	147	124.7	77.9	207	175.5	109.7	267	226.4	141.5	327	277.3	173.3
28	23.7	14.8	88	74.6	46.6	148	125.5	78.4	208	176.4	110.2	268	227.3	142.0	328	278.2	173.8
29	24.6	15.4	89	75.5	47.2	149	126.4	79.0	209	177.2	110.8	269	228.1	142.5	329	279.0	174.3
30	25.4	15.9	90	76.3	47.7	150	127.2	79.5	210	178.1	111.3	270	229.0	143.1	330	279.9	174.9
31	26.3	16.4	91	77.2	48.2	151	128.1	80.0	211	178.9	111.8	271	229.8	143.6	331	280.7	175.4
32	27.1	17.0	92	78.0	48.8	152	128.9	80.5	212	179.8	112.3	272	230.7	144.1	332	281.6	175.9
33	28.0	17.5	93	78.9	49.3	153	129.8	81.1	213	180.6	112.9	273	231.5	144.7	333	282.4	176.5
34	28.8	18.0	94	79.7	49.8	154	130.6	81.6	214	181.5	113.4	274	232.4	145.2	334	283.2	177.0
35	29.7	18.5	95	80.6	50.3	155	131.4	82.1	215	182.3	113.9	275	233.2	145.7	335	284.1	177.5
36	30.5	19.1	96	81.4	50.9	156	132.3	82.7	216	183.2	114.5	276	234.1	146.3	336	284.9	178.1
37	31.4	19.6	97	82.3	51.4	157	133.1	83.2	217	184.0	115.0	277	234.9	146.8	337	285.8	178.6
38	32.2	20.1	98	83.1	51.9	158	134.0	83.7	218	184.9	115.5	278	235.8	147.3	338	286.6	179.1
39	33.1	20.7	99	84.0	52.5	159	134.8	84.3	219	185.7	116.1	279	236.6	147.8	339	287.5	179.6
40	33.9	21.2	100	84.8	53.0	160	135.7	84.8	220	186.6	116.6	280	237.5	148.4	340	288.3	180.2
41	34.8	21.7	101	85.7	53.5	161	136.5	85.3	221	187.4	117.1	281	238.3	148.9	341	289.2	180.7
42	35.6	22.3	102	86.5	54.1	162	137.4	85.8	222	188.3	117.6	282	239.1	149.4	342	290.0	181.2
43	36.5	22.8	103	87.3	54.6	163	138.2	86.4	223	189.1	118.2	283	240.0	150.0	343	290.9	181.8
44	37.3	23.3	104	88.2	55.1	164	139.1	86.9	224	190.0	118.7	284	240.8	150.5	344	291.7	182.3
45	38.2	23.8	105	89.0	55.6	165	139.9	87.4	225	190.8	119.2	285	241.7	151.0	345	292.6	182.8
46	39.0	24.4	106	89.9	56.2	166	140.8	88.0	226	191.7	119.8	286	242.5	151.6	346	293.4	183.4
47	39.9	24.9	107	90.7	56.7	167	141.6	88.5	227	192.5	120.3	287	243.4	152.1	347	294.3	183.9
48	40.7	25.4	108	91.6	57.2	168	142.5	89.0	228	193.4	120.8	288	244.2	152.6	348	295.1	184.4
49	41.6	26.0	109	92.4	57.8	169	143.3	89.6	229	194.2	121.4	289	245.1	153.1	349	296.0	184.9
50	42.4	26.5	110	93.3	58.3	170	144.2	90.1	230	195.1	121.9	290	245.9	153.7	350	296.8	185.5
51	43.3	27.0	111	94.1	58.8	171	145.0	90.6	231	195.9	122.4	291	246.8	154.2	351	297.7	186.0
52	44.1	27.6	112	95.0	59.4	172	145.9	91.1	232	196.7	122.9	292	247.6	154.7	352	298.5	186.5
53	44.9	28.1	113	95.8	59.9	173	146.7	91.7	233	197.6	123.5	293	248.5	155.3	353	299.4	187.1
54	45.8	28.6	114	96.7	60.4	174	147.6	92.2	234	198.4	124.0	294	249.3	155.8	354	300.2	187.6
55	46.6	29.1	115	97.5	60.9	175	148.4	92.7	235	199.3	124.5	295	250.2	156.3	355	301.1	188.1
56	47.5	29.7	116	98.4	61.5	176	149.3	93.3	236	200.1	125.1	296	251.0	156.9	356	301.9	188.7
57	48.3	30.2	117	99.2	62.0	177	150.1	93.8	237	201.0	125.6	297	251.9	157.4	357	302.8	189.2
58	49.2	30.7	118	100.1	62.5	178	151.0	94.3	238	201.8	126.1	298	252.7	157.9	358	303.6	189.7
59	50.0	31.3	119	100.9	63.1	179	151.8	94.9	239	202.7	126.7	299	253.6	158.4	359	304.4	190.2
60	50.9	31.8	120	101.8	63.6	180	152.6	95.4	240	203.5	127.2	300	254.4	159.0	360	305.3	190.8

D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI
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D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	306.1	191.3	421	357.0	223.1	481	407.9	254.9	541	458.8	286.7	601	509.7	318.5	661	560.6	350.3
362	307.0	191.8	422	357.9	223.6	482	408.8	255.4	542	459.6	287.2	602	510.5	319.0	662	561.4	350.8
363	307.8	192.4	423	358.7	224.2	483	409.6	256.0	543	460.5	287.7	603	511.4	319.5	663	562.3	351.3
364	308.7	192.9	424	359.6	224.7	484	410.5	256.5	544	461.3	288.3	604	512.2	320.1	664	563.1	351.9
365	309.5	193.4	425	360.4	225.2	485	411.3	257.0	545	462.2	288.8	605	513.1	320.6	665	564.0	352.4
366	310.4	194.0	426	361.3	225.7	486	412.2	257.5	546	463.0	289.3	606	513.9	321.1	666	564.8	352.9
367	311.2	194.5	427	362.1	226.3	487	413.0	258.1	547	463.9	289.9	607	514.8	321.7	667	565.6	353.5
368	312.1	195.0	428	363.0	226.8	488	413.8	258.6	548	464.7	290.4	608	515.6	322.2	668	566.5	354.0
369	312.9	195.5	429	363.8	227.3	489	414.7	259.1	549	465.6	290.9	609	516.5	322.7	669	567.3	354.5
370	313.8	196.1	430	364.7	227.9	490	415.5	259.7	550	466.4	291.5	610	517.3	323.3	670	568.2	355.0
371	314.6	196.6	431	365.5	228.4	491	416.4	260.2	551	467.3	292.0	611	518.2	323.8	671	569.0	355.6
372	315.5	197.1	432	366.4	228.9	492	417.2	260.7	552	468.1	292.5	612	519.0	324.3	672	569.9	356.1
373	316.3	197.7	433	367.2	229.5	493	418.1	261.3	553	469.0	293.0	613	519.9	324.8	673	570.7	356.6
374	317.2	198.2	434	368.1	230.0	494	418.9	261.8	554	469.8	293.6	614	520.7	325.4	674	571.6	357.2
375	318.0	198.7	435	368.9	230.5	495	419.8	262.3	555	470.7	294.1	615	521.5	325.9	675	572.4	357.7
376	318.9	199.2	436	369.7	231.0	496	420.6	262.8	556	471.5	294.6	616	522.4	326.4	676	573.3	358.2
377	319.7	199.8	437	370.6	231.6	497	421.5	263.4	557	472.4	295.2	617	523.2	327.0	677	574.1	358.8
378	320.6	200.3	438	371.4	232.1	498	422.3	263.9	558	473.2	295.7	618	524.1	327.5	678	575.0	359.3
379	321.4	200.8	439	372.3	232.6	499	423.2	264.4	559	474.1	296.2	619	524.9	328.0	679	575.8	359.8
380	322.3	201.4	440	373.1	233.2	500	424.0	265.0	560	474.9	296.8	620	525.8	328.5	680	576.7	360.3
381	323.1	201.9	441	374.0	233.7	501	424.9	265.5	561	475.8	297.3	621	526.6	329.1	681	577.5	360.9
382	324.0	202.4	442	374.8	234.2	502	425.7	266.0	562	476.6	297.8	622	527.5	329.6	682	578.4	361.4
383	324.8	203.0	443	375.7	234.8	503	426.6	266.5	563	477.5	298.3	623	528.3	330.1	683	579.2	361.9
384	325.7	203.5	444	376.5	235.3	504	427.4	267.1	564	478.3	298.9	624	529.2	330.7	684	580.1	362.5
385	326.5	204.0	445	377.4	235.8	505	428.3	267.6	565	479.1	299.4	625	530.0	331.2	685	580.9	363.0
386	327.3	204.5	446	378.2	236.3	506	429.1	268.1	566	480.0	299.9	626	530.9	331.7	686	581.8	363.5
387	328.2	205.1	447	379.1	236.9	507	430.0	268.7	567	480.8	300.5	627	531.7	332.3	687	582.6	364.1
388	329.0	205.6	448	379.9	237.4	508	430.8	269.2	568	481.7	301.0	628	532.6	332.8	688	583.5	364.6
389	329.9	206.1	449	380.8	237.9	509	431.7	269.7	569	482.5	301.5	629	533.4	333.3	689	584.3	365.1
390	330.7	206.7	450	381.6	238.5	510	432.5	270.3	570	483.4	302.1	630	534.3	333.8	690	585.2	365.6
391	331.6	207.2	451	382.5	239.0	511	433.4	270.8	571	484.2	302.6	631	535.1	334.4	691	586.0	366.2
392	332.4	207.7	452	383.3	239.5	512	434.2	271.3	572	485.1	303.1	632	536.0	334.9	692	586.8	366.7
393	333.3	208.3	453	384.2	240.1	513	435.0	271.8	573	485.9	303.6	633	536.8	335.4	693	587.7	367.2
394	334.1	208.8	454	385.0	240.6	514	435.9	272.4	574	486.8	304.2	634	537.7	336.0	694	588.5	367.8
395	335.0	209.3	455	385.9	241.1	515	436.7	272.9	575	487.6	304.7	635	538.5	336.5	695	589.4	368.3
396	335.8	209.8	456	386.7	241.6	516	437.6	273.4	576	488.5	305.2	636	539.4	337.0	696	590.2	368.8
397	336.7	210.4	457	387.6	242.2	517	438.4	274.0	577	489.3	305.8	637	540.2	337.6	697	591.1	369.4
398	337.5	210.9	458	388.4	242.7	518	439.3	274.5	578	490.2	306.3	638	541.1	338.1	698	591.9	369.9
399	338.4	211.4	459	389.3	243.2	519	440.1	275.0	579	491.0	306.8	639	541.9	338.6	699	592.8	370.4
400	339.2	212.0	460	390.1	243.8	520	441.0	275.6	580	491.9	307.4	640	542.8	339.1	700	593.6	370.9
401	340.1	212.5	461	391.0	244.3	521	441.8	276.1	581	492.7	307.9	641	543.6	339.7	701	594.5	371.5
402	340.9	213.0	462	391.8	244.8	522	442.7	276.6	582	493.6	308.4	642	544.4	340.2	702	595.3	372.0
403	341.8	213.6	463	392.6	245.4	523	443.5	277.1	583	494.4	308.9	643	545.3	340.7	703	596.2	372.5
404	342.6	214.1	464	393.5	245.9	524	444.4	277.7	584	495.3	309.5	644	546.1	341.3	704	597.0	373.1
405	343.5	214.6	465	394.3	246.4	525	445.2	278.2	585	496.1	310.0	645	547.0	341.8	705	597.9	373.6
406	344.3	215.1	466	395.2	246.9	526	446.1	278.7	586	497.0	310.5	646	547.8	342.3	706	598.7	374.1
407	345.2	215.7	467	396.0	247.5	527	446.9	279.3	587	497.8	311.1	647	548.7	342.9	707	599.6	374.7
408	346.0	216.2	468	396.9	248.0	528	447.8	279.8	588	498.7	311.6	648	549.5	343.4	708	600.4	375.2
409	346.9	216.7	469	397.7	248.5	529	448.6	280.3	589	499.5	312.1	649	550.4	343.9	709	601.3	375.7
410	347.7	217.3	470	398.6	249.1	530	449.5	280.9	590	500.3	312.7	650	551.2	344.4	710	602.1	376.2
411	348.5	217.8	471	399.4	249.6	531	450.3	281.4	591	501.2	313.2	651	552.1	345.0	711	603.0	376.8
412	349.4	218.3	472	400.3	250.1	532	451.2	281.9	592	502.0	313.7	652	552.9	345.5	712	603.8	377.3
413	350.2	218.9	473	401.1	250.7	533	452.0	282.4	593	502.9	314.2	653	553.8	346.0	713	604.7	377.8
414	351.1	219.4	474	402.0	251.2	534	452.9	283.0	594	503.7	314.8	654	554.6	346.6	714	605.5	378.4
415	351.9	219.9	475	402.8	251.7	535	453.7	283.5	595	504.6	315.3	655	555.5	347.1	715	606.4	378.9
416	352.8	220.4	476	403.7	252.2	536	454.6	284.0	596	505.4	315.8	656	556.3	347.6	716	607.2	379.4
417	353.6	221.0	477	404.5	252.8	537	455.4	284.6	597	506.3	316.4	657	557.2	348.2	717	608.1	380.0
418	354.5	221.5	478	405.4	253.3	538	456.2	285.1	598	507.1	316.9	658	558.0	348.7	718	608.9	380.5
419	355.3	222.0	479	406.2	253.8	539	457.1	285.6	599	508.0	317.4	659	558.9	349.2	719	609.7	381.0
420	356.2	222.6	480	407.1	254.4	540	457.9	286.2	600	508.8	318.0	660	559.7	349.7	720	610.6	381.5
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	0.8	0.5	61	51.2	33.2	121	101.5	65.9	181	151.8	98.6	241	202.1	131.3	301	252.4	163.9
2	1.7	1.1	62	52.0	33.8	122	102.3	66.4	182	152.6	99.1	242	203.0	131.8	302	253.3	164.5
3	2.5	1.6	63	52.8	34.3	123	103.2	67.0	183	153.5	99.7	243	203.8	132.3	303	254.1	165.0
4	3.4	2.2	64	53.7	34.9	124	104.0	67.5	184	154.3	100.2	244	204.6	132.9	304	255.0	165.6
5	4.2	2.7	65	54.5	35.4	125	104.8	68.1	185	155.2	100.8	245	205.5	133.4	305	255.8	166.1
6	5.0	3.3	66	55.4	35.9	126	105.7	68.6	186	156.0	101.3	246	206.3	134.0	306	256.6	166.7
7	5.9	3.8	67	56.2	36.5	127	106.5	69.2	187	156.8	101.8	247	207.2	134.5	307	257.5	167.2
8	6.7	4.4	68	57.0	37.0	128	107.3	69.7	188	157.7	102.4	248	208.0	135.1	308	258.3	167.7
9	7.5	4.9	69	57.9	37.6	129	108.2	70.3	189	158.5	102.9	249	208.8	135.6	309	259.1	168.3
10	8.4	5.4	70	58.7	38.1	130	109.0	70.8	190	159.3	103.5	250	209.7	136.2	310	260.0	168.8
11	9.2	6.0	71	59.5	38.7	131	109.9	71.3	191	160.2	104.0	251	210.5	136.7	311	260.8	169.4
12	10.1	6.5	72	60.4	39.2	132	110.7	71.9	192	161.0	104.6	252	211.3	137.2	312	261.7	169.9
13	10.9	7.1	73	61.2	39.8	133	111.5	72.4	193	161.9	105.1	253	212.2	137.8	313	262.5	170.5
14	11.7	7.6	74	62.1	40.3	134	112.4	73.0	194	162.7	105.7	254	213.0	138.3	314	263.3	171.0
15	12.6	8.2	75	62.9	40.8	135	113.2	73.5	195	163.5	106.2	255	213.9	138.9	315	264.2	171.6
16	13.4	8.7	76	63.7	41.4	136	114.1	74.1	196	164.4	106.7	256	214.7	139.4	316	265.0	172.1
17	14.3	9.3	77	64.6	41.9	137	114.9	74.6	197	165.2	107.3	257	215.5	140.0	317	265.9	172.7
18	15.1	9.8	78	65.4	42.5	138	115.7	75.2	198	166.1	107.8	258	216.4	140.5	318	266.7	173.2
19	15.9	10.3	79	66.3	43.0	139	116.6	75.7	199	166.9	108.4	259	217.2	141.1	319	267.5	173.7
20	16.8	10.9	80	67.1	43.6	140	117.4	76.2	200	167.7	108.9	260	218.1	141.6	320	268.4	174.3
21	17.6	11.4	81	67.9	44.1	141	118.3	76.8	201	168.6	109.5	261	218.9	142.2	321	269.2	174.8
22	18.5	12.0	82	68.8	44.7	142	119.1	77.3	202	169.4	110.0	262	219.7	142.7	322	270.1	175.4
23	19.3	12.5	83	69.6	45.2	143	119.9	77.9	203	170.3	110.6	263	220.6	143.2	323	270.9	175.9
24	20.1	13.1	84	70.4	45.7	144	120.8	78.4	204	171.1	111.1	264	221.4	143.8	324	271.7	176.5
25	21.0	13.6	85	71.3	46.3	145	121.6	79.0	205	171.9	111.7	265	222.2	144.3	325	272.6	177.0
26	21.8	14.2	86	72.1	46.8	146	122.4	79.5	206	172.8	112.2	266	223.1	144.9	326	273.4	177.6
27	22.6	14.7	87	73.0	47.4	147	123.3	80.1	207	173.6	112.7	267	223.9	145.4	327	274.2	178.1
28	23.5	15.2	88	73.8	47.9	148	124.1	80.6	208	174.4	113.3	268	224.8	146.0	328	275.1	178.6
29	24.3	15.8	89	74.6	48.5	149	125.0	81.2	209	175.3	113.8	269	225.6	146.5	329	275.9	179.2
30	25.2	16.3	90	75.5	49.0	150	125.8	81.7	210	176.1	114.4	270	226.4	147.1	330	276.8	179.7
31	26.0	16.9	91	76.3	49.6	151	126.6	82.2	211	177.0	114.9	271	227.3	147.6	331	277.6	180.3
32	26.8	17.4	92	77.2	50.1	152	127.5	82.8	212	177.8	115.5	272	228.1	148.1	332	278.4	180.8
33	27.7	18.0	93	78.0	50.7	153	128.3	83.3	213	178.6	116.0	273	229.0	148.7	333	279.3	181.4
34	28.5	18.5	94	78.8	51.2	154	129.2	83.9	214	179.5	116.6	274	229.8	149.2	334	280.1	181.9
35	29.4	19.1	95	79.7	51.7	155	130.0	84.4	215	180.3	117.1	275	230.6	149.8	335	281.0	182.5
36	30.2	19.6	96	80.5	52.3	156	130.8	85.0	216	181.2	117.6	276	231.5	150.3	336	281.8	183.0
37	31.0	20.2	97	81.4	52.8	157	131.7	85.5	217	182.0	118.2	277	232.3	150.9	337	282.6	183.5
38	31.9	20.7	98	82.2	53.4	158	132.5	86.1	218	182.8	118.7	278	233.2	151.4	338	283.5	184.1
39	32.7	21.2	99	83.0	53.9	159	133.3	86.6	219	183.7	119.3	279	234.0	152.0	339	284.3	184.6
40	33.5	21.8	100	83.9	54.5	160	134.2	87.1	220	184.5	119.8	280	234.8	152.5	340	285.1	185.2
41	34.4	22.3	101	84.7	55.0	161	135.0	87.7	221	185.3	120.4	281	235.7	153.0	341	286.0	185.7
42	35.2	22.9	102	85.5	55.6	162	135.9	88.2	222	186.2	120.9	282	236.5	153.6	342	286.8	186.3
43	36.1	23.4	103	86.4	56.1	163	136.7	88.8	223	187.0	121.5	283	237.3	154.1	343	287.7	186.8
44	36.9	24.0	104	87.2	56.6	164	137.5	89.3	224	187.9	122.0	284	238.2	154.7	344	288.5	187.4
45	37.7	24.5	105	88.1	57.2	165	138.4	89.9	225	188.7	122.5	285	239.0	155.2	345	289.3	187.9
46	38.6	25.1	106	88.9	57.7	166	139.2	90.4	226	189.5	123.1	286	239.9	155.8	346	290.2	188.4
47	39.4	25.6	107	89.7	58.3	167	140.1	91.0	227	190.4	123.6	287	240.7	156.3	347	291.0	189.0
48	40.3	26.1	108	90.6	58.8	168	140.9	91.5	228	191.2	124.2	288	241.5	156.9	348	291.9	189.5
49	41.1	26.7	109	91.4	59.4	169	141.7	92.0	229	192.1	124.7	289	242.4	157.4	349	292.7	190.1
50	41.9	27.2	110	92.3	59.9	170	142.6	92.6	230	192.9	125.3	290	243.2	157.9	350	293.5	190.6
51	42.8	27.8	111	93.1	60.5	171	143.4	93.1	231	193.7	125.8	291	244.1	158.5	351	294.4	191.2
52	43.6	28.3	112	93.9	61.0	172	144.3	93.7	232	194.6	126.4	292	244.9	159.0	352	295.2	191.7
53	44.4	28.9	113	94.8	61.5	173	145.1	94.2	233	195.4	126.9	293	245.7	159.6	353	296.1	192.3
54	45.3	29.4	114	95.6	62.1	174	145.9	94.8	234	196.2	127.4	294	246.6	160.1	354	296.9	192.8
55	46.1	30.0	115	96.4	62.6	175	146.8	95.3	235	197.1	128.0	295	247.4	160.7	355	297.7	193.3
56	47.0	30.5	116	97.3	63.2	176	147.6	95.9	236	197.9	128.5	296	248.2	161.2	356	298.6	193.9
57	47.8	31.0	117	98.1	63.7	177	148.4	96.4	237	198.8	129.1	297	249.1	161.8	357	299.4	194.4
58	48.6	31.6	118	99.0	64.3	178	149.3	96.9	238	199.6	129.6	298	249.9	162.3	358	300.2	195.0
59	49.5	32.1	119	99.8	64.8	179	150.1	97.5	239	200.4	130.2	299	250.8	162.8	359	301.1	195.5
60	50.3	32.7	120	100.6	65.4	180	151.0	98.0	240	201.3	130.7	300	251.6	163.4	360	301.9	196.1
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep	D	Δl	Dep
361	302.8	196.6	421	353.1	229.3	481	403.4	262.0	541	453.7	294.6	601	504.0	327.3	661	554.4	360.0
362	303.6	197.2	422	353.9	229.8	482	404.2	262.5	542	454.6	295.2	602	504.9	327.9	662	555.2	360.6
363	304.4	197.7	423	354.8	230.4	483	405.1	263.1	543	455.4	295.7	603	505.7	328.4	663	556.0	361.1
364	305.3	198.2	424	355.6	230.9	484	405.9	263.6	544	456.2	296.3	604	506.6	329.0	664	556.9	361.6
365	306.1	198.8	425	356.4	231.5	485	406.8	264.1	545	457.1	296.8	605	507.4	329.5	665	557.7	362.2
366	307.0	199.3	426	357.3	232.0	486	407.6	264.7	546	457.9	297.4	606	508.2	330.1	666	558.6	362.7
367	307.8	199.9	427	358.1	232.6	487	408.4	265.2	547	458.8	297.9	607	509.1	330.6	667	559.4	363.3
368	308.6	200.4	428	359.0	233.1	488	409.3	265.8	548	459.6	298.5	608	509.9	331.1	668	560.2	363.8
369	309.5	201.0	429	359.8	233.7	489	410.1	266.3	549	460.4	299.0	609	510.8	331.7	669	561.1	364.4
370	310.3	201.5	430	360.6	234.2	490	410.9	266.9	550	461.3	299.6	610	511.6	332.2	670	561.9	364.9
371	311.1	202.1	431	361.5	234.7	491	411.8	267.4	551	462.1	300.1	611	512.4	332.8	671	562.7	365.5
372	312.0	202.6	432	362.3	235.3	492	412.6	268.0	552	462.9	300.6	612	513.3	333.3	672	563.6	366.0
373	312.8	203.2	433	363.1	235.8	493	413.5	268.5	553	463.8	301.2	613	514.1	333.9	673	564.4	366.5
374	313.7	203.7	434	364.0	236.4	494	414.3	269.1	554	464.6	301.7	614	514.9	334.4	674	565.3	367.1
375	314.5	204.2	435	364.8	236.9	495	415.1	269.6	555	465.5	302.3	615	515.8	335.0	675	566.1	367.6
376	315.3	204.8	436	365.7	237.5	496	416.0	270.1	556	466.3	302.8	616	516.6	335.5	676	566.9	368.2
377	316.2	205.3	437	366.5	238.0	497	416.8	270.7	557	467.1	303.4	617	517.5	336.0	677	567.8	368.7
378	317.0	205.9	438	367.3	238.6	498	417.7	271.2	558	468.0	303.9	618	518.3	336.6	678	568.6	369.3
379	317.9	206.4	439	368.2	239.1	499	418.5	271.8	559	468.8	304.5	619	519.1	337.1	679	569.5	369.8
380	318.7	207.0	440	369.0	239.6	500	419.3	272.3	560	469.7	305.0	620	520.0	337.7	680	570.3	370.4
381	319.5	207.5	441	369.9	240.2	501	420.2	272.9	561	470.5	305.5	621	520.8	338.2	681	571.1	370.9
382	320.4	208.1	442	370.7	240.7	502	421.0	273.4	562	471.3	306.1	622	521.7	338.8	682	572.0	371.4
383	321.2	208.6	443	371.5	241.3	503	421.9	274.0	563	472.2	306.6	623	522.5	339.3	683	572.8	372.0
384	322.0	209.1	444	372.4	241.8	504	422.7	274.5	564	473.0	307.2	624	523.3	339.9	684	573.7	372.5
385	322.9	209.7	445	373.2	242.4	505	423.5	275.0	565	473.8	307.7	625	524.2	340.4	685	574.5	373.1
386	323.7	210.2	446	374.0	242.9	506	424.4	275.6	566	474.7	308.3	626	525.0	340.9	686	575.3	373.6
387	324.6	210.8	447	374.9	243.5	507	425.2	276.1	567	475.5	308.8	627	525.8	341.5	687	576.2	374.2
388	325.4	211.3	448	375.7	244.0	508	426.0	276.7	568	476.4	309.4	628	526.7	342.0	688	577.0	374.7
389	326.2	211.9	449	376.6	244.5	509	426.9	277.2	569	477.2	309.9	629	527.5	342.6	689	577.8	375.3
390	327.1	212.4	450	377.4	245.1	510	427.7	277.8	570	478.0	310.4	630	528.4	343.1	690	578.7	375.8
391	327.9	213.0	451	378.2	245.6	511	428.6	278.3	571	478.9	311.0	631	529.2	343.7	691	579.5	376.3
392	328.8	213.5	452	379.1	246.2	512	429.4	278.9	572	479.7	311.5	632	530.0	344.2	692	580.4	376.9
393	329.6	214.0	453	379.9	246.7	513	430.2	279.4	573	480.6	312.1	633	530.9	344.8	693	581.2	377.4
394	330.4	214.6	454	380.8	247.3	514	431.1	279.9	574	481.4	312.6	634	531.7	345.3	694	582.0	378.0
395	331.3	215.1	455	381.6	247.8	515	431.9	280.5	575	482.2	313.2	635	532.6	345.8	695	582.9	378.5
396	332.1	215.7	456	382.4	248.4	516	432.8	281.0	576	483.1	313.7	636	533.4	346.4	696	583.7	379.1
397	333.0	216.2	457	383.3	248.9	517	433.6	281.6	577	483.9	314.3	637	534.2	346.9	697	584.6	379.6
398	333.8	216.8	458	384.1	249.4	518	434.4	282.1	578	484.8	314.8	638	535.1	347.5	698	585.4	380.2
399	334.6	217.3	459	384.9	250.0	519	435.3	282.7	579	485.6	315.3	639	535.9	348.0	699	586.2	380.7
400	335.5	217.9	460	385.8	250.5	520	436.1	283.2	580	486.4	315.9	640	536.7	348.6	700	587.1	381.2
401	336.3	218.4	461	386.6	251.1	521	436.9	283.8	581	487.3	316.4	641	537.6	349.1	701	587.9	381.8
402	337.1	218.9	462	387.5	251.6	522	437.8	284.3	582	488.1	317.0	642	538.4	349.7	702	588.7	382.3
403	338.0	219.5	463	388.3	252.2	523	438.6	284.8	583	488.9	317.5	643	539.3	350.2	703	589.6	382.9
404	338.8	220.0	464	389.1	252.7	524	439.5	285.4	584	489.8	318.1	644	540.1	350.7	704	590.4	383.4
405	339.7	220.6	465	390.0	253.3	525	440.3	285.9	585	490.6	318.6	645	540.9	351.3	705	591.3	384.0
406	340.5	221.1	466	390.8	253.8	526	441.1	286.5	586	491.5	319.2	646	541.8	351.8	706	592.1	384.5
407	341.3	221.7	467	391.7	254.3	527	442.0	287.0	587	492.3	319.7	647	542.6	352.4	707	592.9	385.1
408	342.2	222.2	468	392.5	254.9	528	442.8	287.6	588	493.1	320.2	648	543.5	352.9	708	593.8	385.6
409	343.0	222.8	469	393.3	255.4	529	443.7	288.1	589	494.0	320.8	649	544.3	353.5	709	594.6	386.1
410	343.9	223.3	470	394.2	256.0	530	444.5	288.7	590	494.8	321.3	650	545.1	354.0	710	595.5	386.7
411	344.7	223.8	471	395.0	256.5	531	445.3	289.2	591	495.7	321.9	651	546.0	354.6	711	596.3	387.2
412	345.5	224.4	472	395.9	257.1	532	446.2	289.7	592	496.5	322.4	652	546.8	355.1	712	597.1	387.8
413	346.4	224.9	473	396.7	257.6	533	447.0	290.3	593	497.3	323.0	653	547.7	355.6	713	598.0	388.3
414	347.2	225.5	474	397.5	258.2	534	447.9	290.8	594	498.2	323.5	654	548.5	356.2	714	598.8	388.9
415	348.0	226.0	475	398.4	258.7	535	448.7	291.4	595	499.0	324.1	655	549.3	356.7	715	599.6	389.4
416	348.9	226.6	476	399.2	259.2	536	449.5	291.9	596	499.8	324.6	656	550.2	357.3	716	600.5	390.0
417	349.7	227.1	477	400.0	259.8	537	450.4	292.5	597	500.7	325.1	657	551.0	357.8	717	601.3	390.5
418	350.6	227.7	478	400.9	260.3	538	451.2	293.0	598	501.5	325.7	658	551.8	358.4	718	602.2	391.1
419	351.4	228.2	479	401.7	260.9	539	452.0	293.6	599	502.4	326.2	659	552.7	358.9	719	603.0	391.6
420	352.2	228.7	480	402.6	261.4	540	452.9	294.1	600	503.2	326.8	660	553.5	359.5	720	603.8	392.1

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	0.8	0.6	61	50.6	34.1	121	100.3	67.7	181	150.1	101.2	241	199.8	134.8	301	249.5	168.3
2	1.7	1.1	62	51.4	34.7	122	101.1	68.2	182	150.9	101.8	242	200.6	135.3	302	250.4	168.9
3	2.5	1.7	63	52.2	35.2	123	102.0	68.8	183	151.7	102.3	243	201.5	135.9	303	251.2	169.4
4	3.3	2.2	64	53.1	35.8	124	102.8	69.3	184	152.5	102.9	244	202.3	136.4	304	252.0	170.0
5	4.1	2.8	65	53.9	36.3	125	103.6	69.9	185	153.4	103.5	245	203.1	137.0	305	252.9	170.6
6	5.0	3.4	66	54.7	36.9	126	104.5	70.5	186	154.2	104.0	246	203.9	137.6	306	253.7	171.1
7	5.8	3.9	67	55.5	37.5	127	105.3	71.0	187	155.0	104.6	247	204.8	138.1	307	254.5	171.7
8	6.6	4.5	68	56.4	38.0	128	106.1	71.6	188	155.9	105.1	248	205.6	138.7	308	255.3	172.2
9	7.5	5.0	69	57.2	38.6	129	106.9	72.1	189	156.7	105.7	249	206.4	139.2	309	256.2	172.8
10	8.3	5.6	70	58.0	39.1	130	107.8	72.7	190	157.5	106.2	250	207.3	139.8	310	257.0	173.3
11	9.1	6.2	71	58.9	39.7	131	108.6	73.3	191	158.3	106.8	251	208.1	140.4	311	257.8	173.9
12	9.9	6.7	72	59.7	40.3	132	109.4	73.8	192	159.2	107.4	252	208.9	140.9	312	258.7	174.5
13	10.8	7.3	73	60.5	40.8	133	110.3	74.4	193	160.0	107.9	253	209.7	141.5	313	259.5	175.0
14	11.6	7.8	74	61.3	41.4	134	111.1	74.9	194	160.8	108.5	254	210.6	142.0	314	260.3	175.6
15	12.4	8.4	75	62.2	41.9	135	111.9	75.5	195	161.7	109.0	255	211.4	142.6	315	261.1	176.1
16	13.3	8.9	76	63.0	42.5	136	112.7	76.1	196	162.5	109.6	256	212.2	143.2	316	262.0	176.7
17	14.1	9.5	77	63.8	43.1	137	113.6	76.6	197	163.3	110.2	257	213.1	143.7	317	262.8	177.3
18	14.9	10.1	78	64.7	43.6	138	114.4	77.2	198	164.1	110.7	258	213.9	144.3	318	263.6	177.8
19	15.8	10.6	79	65.5	44.2	139	115.2	77.7	199	165.0	111.3	259	214.7	144.8	319	264.5	178.4
20	16.6	11.2	80	66.3	44.7	140	116.1	78.3	200	165.8	111.8	260	215.5	145.4	320	265.3	178.9
21	17.4	11.7	81	67.2	45.3	141	116.9	78.8	201	166.6	112.4	261	216.4	145.9	321	266.1	179.5
22	18.2	12.3	82	68.0	45.9	142	117.7	79.4	202	167.5	113.0	262	217.2	146.5	322	267.0	180.1
23	19.1	12.9	83	68.8	46.4	143	118.6	80.0	203	168.3	113.5	263	218.0	147.1	323	267.8	180.6
24	19.9	13.4	84	69.6	47.0	144	119.4	80.5	204	169.1	114.1	264	218.9	147.6	324	268.6	181.2
25	20.7	14.0	85	70.5	47.5	145	120.2	81.1	205	170.0	114.6	265	219.7	148.2	325	269.4	181.7
26	21.6	14.5	86	71.3	48.1	146	121.0	81.6	206	170.8	115.2	266	220.5	148.7	326	270.3	182.3
27	22.4	15.1	87	72.1	48.6	147	121.9	82.2	207	171.6	115.8	267	221.4	149.3	327	271.1	182.9
28	23.2	15.7	88	73.0	49.2	148	122.7	82.8	208	172.4	116.3	268	222.2	149.9	328	271.9	183.4
29	24.0	16.2	89	73.8	49.8	149	123.5	83.3	209	173.3	116.9	269	223.0	150.4	329	272.8	184.0
30	24.9	16.8	90	74.6	50.3	150	124.4	83.9	210	174.1	117.4	270	223.8	151.0	330	273.6	184.5
31	25.7	17.3	91	75.4	50.9	151	125.2	84.4	211	174.9	118.0	271	224.7	151.5	331	274.4	185.1
32	26.5	17.9	92	76.3	51.4	152	126.0	85.0	212	175.8	118.5	272	225.5	152.1	332	275.2	185.7
33	27.4	18.5	93	77.1	52.0	153	126.8	85.6	213	176.6	119.1	273	226.3	152.7	333	276.1	186.2
34	28.2	19.0	94	77.9	52.6	154	127.7	86.1	214	177.4	119.7	274	227.2	153.2	334	276.9	186.8
35	29.0	19.6	95	78.8	53.1	155	128.5	86.7	215	178.2	120.2	275	228.0	153.8	335	277.7	187.3
36	29.8	20.1	96	79.6	53.7	156	129.3	87.2	216	179.1	120.8	276	228.8	154.3	336	278.6	187.9
37	30.7	20.7	97	80.4	54.2	157	130.2	87.8	217	179.9	121.3	277	229.6	154.9	337	279.4	188.4
38	31.5	21.2	98	81.2	54.8	158	131.0	88.4	218	180.7	121.9	278	230.5	155.5	338	280.2	189.0
39	32.3	21.8	99	82.1	55.4	159	131.8	88.9	219	181.6	122.5	279	231.3	156.0	339	281.0	189.6
40	33.2	22.4	100	82.9	55.9	160	132.6	89.5	220	182.4	123.0	280	232.1	156.6	340	281.9	190.1
41	34.0	22.9	101	83.7	56.5	161	133.5	90.0	221	183.2	123.6	281	233.0	157.1	341	282.7	190.7
42	34.8	23.5	102	84.6	57.0	162	134.3	90.6	222	184.0	124.1	282	233.8	157.7	342	283.5	191.2
43	35.6	24.0	103	85.4	57.6	163	135.1	91.1	223	184.9	124.7	283	234.6	158.3	343	284.4	191.8
44	36.5	24.6	104	86.2	58.2	164	136.0	91.7	224	185.7	125.3	284	235.4	158.8	344	285.2	192.4
45	37.3	25.2	105	87.0	58.7	165	136.8	92.3	225	186.5	125.8	285	236.3	159.4	345	286.0	192.9
46	38.1	25.7	106	87.9	59.3	166	137.6	92.8	226	187.4	126.4	286	237.1	159.9	346	286.8	193.5
47	39.0	26.3	107	88.7	59.8	167	138.4	93.4	227	188.2	126.9	287	237.9	160.5	347	287.7	194.0
48	39.8	26.8	108	89.5	60.4	168	139.3	93.9	228	189.0	127.5	288	238.8	161.0	348	288.5	194.6
49	40.6	27.4	109	90.4	61.0	169	140.1	94.5	229	189.8	128.1	289	239.6	161.6	349	289.3	195.2
50	41.5	28.0	110	91.2	61.5	170	140.9	95.1	230	190.7	128.6	290	240.4	162.2	350	290.2	195.7
51	42.3	28.5	111	92.0	62.1	171	141.8	95.6	231	191.5	129.2	291	241.3	162.7	351	291.0	196.3
52	43.1	29.1	112	92.9	62.6	172	142.6	96.2	232	192.3	129.7	292	242.1	163.3	352	291.8	196.8
53	43.9	29.6	113	93.7	63.2	173	143.4	96.7	233	193.2	130.3	293	242.9	163.8	353	292.7	197.4
54	44.8	30.2	114	94.5	63.7	174	144.3	97.3	234	194.0	130.9	294	243.7	164.4	354	293.5	198.0
55	45.6	30.8	115	95.3	64.3	175	145.1	97.9	235	194.8	131.4	295	244.6	165.0	355	294.3	198.5
56	46.4	31.3	116	96.2	64.9	176	145.9	98.4	236	195.7	132.0	296	245.4	165.5	356	295.1	199.1
57	47.3	31.9	117	97.0	65.4	177	146.7	99.0	237	196.5	132.5	297	246.2	166.1	357	296.0	199.6
58	48.1	32.4	118	97.8	66.0	178	147.6	99.5	238	197.3	133.1	298	247.1	166.6	358	296.8	200.2
59	48.9	33.0	119	98.7	66.5	179	148.4	100.1	239	198.1	133.6	299	247.9	167.2	359	297.6	200.8
60	49.7	33.6	120	99.5	67.1	180	149.2	100.7	240	199.0	134.2	300	248.7	167.8	360	298.5	201.3
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	299.3	201.9	421	349.0	235.4	481	398.8	269.0	541	448.5	302.5	601	498.3	336.1	661	548.0	369.6
362	300.1	202.4	422	349.9	236.0	482	399.6	269.5	542	449.3	303.1	602	499.1	336.6	662	548.8	370.2
363	300.9	203.0	423	350.7	236.5	483	400.4	270.1	543	450.2	303.6	603	499.9	337.2	663	549.7	370.7
364	301.8	203.5	424	351.5	237.1	484	401.3	270.6	544	451.0	304.2	604	500.7	337.8	664	550.5	371.3
365	302.6	204.1	425	352.3	237.7	485	402.1	271.2	545	451.8	304.8	605	501.6	338.3	665	551.3	371.9
366	303.4	204.7	426	353.2	238.2	486	402.9	271.8	546	452.7	305.3	606	502.4	338.9	666	552.1	372.4
367	304.3	205.2	427	354.0	238.8	487	403.7	272.3	547	453.5	305.9	607	503.2	339.4	667	553.0	373.0
368	305.1	205.8	428	354.8	239.3	488	404.6	272.9	548	454.3	306.4	608	504.1	340.0	668	553.8	373.5
369	305.9	206.3	429	355.7	239.9	489	405.4	273.4	549	455.1	307.0	609	504.9	340.5	669	554.6	374.1
370	306.7	206.9	430	356.5	240.5	490	406.2	274.0	550	456.0	307.6	610	505.7	341.1	670	555.5	374.7
371	307.6	207.5	431	357.3	241.0	491	407.1	274.6	551	456.8	308.1	611	506.5	341.7	671	556.3	375.2
372	308.4	208.0	432	358.1	241.6	492	407.9	275.1	552	457.6	308.7	612	507.4	342.2	672	557.1	375.8
373	309.2	208.6	433	359.0	242.1	493	408.7	275.7	553	458.5	309.2	613	508.2	342.8	673	557.9	376.3
374	310.1	209.1	434	359.8	242.7	494	409.5	276.2	554	459.3	309.8	614	509.0	343.3	674	558.8	376.9
375	310.9	209.7	435	360.6	243.2	495	410.4	276.8	555	460.1	310.4	615	509.9	343.9	675	559.6	377.5
376	311.7	210.3	436	361.5	243.8	496	411.2	277.4	556	460.9	310.9	616	510.7	344.5	676	560.4	378.0
377	312.5	210.8	437	362.3	244.4	497	412.0	277.9	557	461.8	311.5	617	511.5	345.0	677	561.3	378.6
378	313.4	211.4	438	363.1	244.9	498	412.9	278.5	558	462.6	312.0	618	512.3	345.6	678	562.1	379.1
379	314.2	211.9	439	363.9	245.5	499	413.7	279.0	559	463.4	312.6	619	513.2	346.1	679	562.9	379.7
380	315.0	212.5	440	364.8	246.0	500	414.5	279.6	560	464.3	313.1	620	514.0	346.7	680	563.7	380.3
381	315.9	213.1	441	365.6	246.6	501	415.3	280.2	561	465.1	313.7	621	514.8	347.3	681	564.6	380.8
382	316.7	213.6	442	366.4	247.2	502	416.2	280.7	562	465.9	314.3	622	515.7	347.8	682	565.4	381.4
383	317.5	214.2	443	367.3	247.7	503	417.0	281.3	563	466.7	314.8	623	516.5	348.4	683	566.2	381.9
384	318.4	214.7	444	368.1	248.3	504	417.8	281.8	564	467.6	315.4	624	517.3	348.9	684	567.1	382.5
385	319.2	215.3	445	368.9	248.8	505	418.7	282.4	565	468.4	315.9	625	518.1	349.5	685	567.9	383.0
386	320.0	215.8	446	369.8	249.4	506	419.5	283.0	566	469.2	316.5	626	519.0	350.1	686	568.7	383.6
387	320.8	216.4	447	370.6	250.0	507	420.3	283.5	567	470.1	317.1	627	519.8	350.6	687	569.5	384.2
388	321.7	217.0	448	371.4	250.5	508	421.2	284.1	568	470.9	317.6	628	520.6	351.2	688	570.4	384.7
389	322.5	217.5	449	372.2	251.1	509	422.0	284.6	569	471.7	318.2	629	521.5	351.7	689	571.2	385.3
390	323.3	218.1	450	373.1	251.6	510	422.8	285.2	570	472.6	318.7	630	522.3	352.3	690	572.0	385.8
391	324.2	218.6	451	373.9	252.2	511	423.6	285.7	571	473.4	319.3	631	523.1	352.9	691	572.9	386.4
392	325.0	219.2	452	374.7	252.8	512	424.5	286.3	572	474.2	319.9	632	524.0	353.4	692	573.7	387.0
393	325.8	219.8	453	375.6	253.3	513	425.3	286.9	573	475.0	320.4	633	524.8	354.0	693	574.5	387.5
394	326.6	220.3	454	376.4	253.9	514	426.1	287.4	574	475.9	321.0	634	525.6	354.5	694	575.4	388.1
395	327.5	220.9	455	377.2	254.4	515	427.0	288.0	575	476.7	321.5	635	526.4	355.1	695	576.2	388.6
396	328.3	221.4	456	378.0	255.0	516	427.8	288.5	576	477.5	322.1	636	527.3	355.6	696	577.0	389.2
397	329.1	222.0	457	378.9	255.6	517	428.6	289.1	577	478.4	322.7	637	528.1	356.2	697	577.8	389.8
398	330.0	222.6	458	379.7	256.1	518	429.4	289.7	578	479.2	323.2	638	528.9	356.8	698	578.7	390.3
399	330.8	223.1	459	380.5	256.7	519	430.3	290.2	579	480.0	323.8	639	529.8	357.3	699	579.5	390.9
400	331.6	223.7	460	381.4	257.2	520	431.1	290.8	580	480.8	324.3	640	530.6	357.9	700	580.3	391.4
401	332.4	224.2	461	382.2	257.8	521	431.9	291.3	581	481.7	324.9	641	531.4	358.4	701	581.2	392.0
402	333.3	224.8	462	383.0	258.3	522	432.8	291.9	582	482.5	325.5	642	532.2	359.0	702	582.0	392.6
403	334.1	225.4	463	383.8	258.9	523	433.6	292.5	583	483.3	326.0	643	533.1	359.6	703	582.8	393.1
404	334.9	225.9	464	384.7	259.5	524	434.4	293.0	584	484.2	326.6	644	533.9	360.1	704	583.6	393.7
405	335.8	226.5	465	385.5	260.0	525	435.2	293.6	585	485.0	327.1	645	534.7	360.7	705	584.5	394.2
406	336.6	227.0	466	386.3	260.6	526	436.1	294.1	586	485.8	327.7	646	535.6	361.2	706	585.3	394.8
407	337.4	227.6	467	387.2	261.1	527	436.9	294.7	587	486.6	328.2	647	536.4	361.8	707	586.1	395.3
408	338.2	228.2	468	388.0	261.7	528	437.7	295.3	588	487.5	328.8	648	537.2	362.4	708	587.0	395.9
409	339.1	228.7	469	388.8	262.3	529	438.6	295.8	589	488.3	329.4	649	538.0	362.9	709	587.8	396.5
410	339.9	229.3	470	389.6	262.8	530	439.4	296.4	590	489.1	329.9	650	538.9	363.5	710	588.6	397.0
411	340.7	229.8	471	390.5	263.4	531	440.2	296.9	591	490.0	330.5	651	539.7	364.0	711	589.4	397.6
412	341.6	230.4	472	391.3	263.9	532	441.0	297.5	592	490.8	331.0	652	540.5	364.6	712	590.3	398.1
413	342.4	230.9	473	392.1	264.5	533	441.9	298.0	593	491.6	331.6	653	541.4	365.2	713	591.1	398.7
414	343.2	231.5	474	393.0	265.1	534	442.7	298.6	594	492.4	332.2	654	542.2	365.7	714	591.9	399.3
415	344.1	232.1	475	393.8	265.6	535	443.5	299.2	595	493.3	332.7	655	543.0	366.3	715	592.8	399.8
416	344.9	232.6	476	394.6	266.2	536	444.4	299.7	596	494.1	333.3	656	543.8	366.8	716	593.6	400.4
417	345.7	233.2	477	395.5	266.7	537	445.2	300.3	597	494.9	333.8	657	544.7	367.4	717	594.4	400.9
418	346.5	233.7	478	396.3	267.3	538	446.0	300.8	598	495.8	334.4	658	545.5	367.9	718	595.2	401.5
419	347.4	234.3	479	397.1	267.9	539	446.9	301.4	599	496.6	335.0	659	546.3	368.5	719	596.1	402.1
420	348.2	234.9	480	397.9	268.4	540	447.7	302.0	600	497.4	335.5	660	547.2	369.1	720	596.9	402.6
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	0.8	0.6	61	50.0	35.0	121	99.1	69.4	181	148.3	103.8	241	197.4	138.2	301	246.6	172.6
2	1.6	1.1	62	50.8	35.6	122	99.9	70.0	182	149.1	104.4	242	198.2	138.8	302	247.4	173.2
3	2.5	1.7	63	51.6	36.1	123	100.8	70.5	183	149.9	105.0	243	199.1	139.4	303	248.2	173.8
4	3.3	2.3	64	52.4	36.7	124	101.6	71.1	184	150.7	105.5	244	199.9	140.0	304	249.0	174.4
5	4.1	2.9	65	53.2	37.3	125	102.4	71.7	185	151.5	106.1	245	200.7	140.5	305	249.8	174.9
6	4.9	3.4	66	54.1	37.9	126	103.2	72.3	186	152.4	106.7	246	201.5	141.1	306	250.7	175.5
7	5.7	4.0	67	54.9	38.4	127	104.0	72.8	187	153.2	107.3	247	202.3	141.7	307	251.5	176.1
8	6.6	4.6	68	55.7	39.0	128	104.9	73.4	188	154.0	107.8	248	203.1	142.2	308	252.3	176.7
9	7.4	5.2	69	56.5	39.6	129	105.7	74.0	189	154.8	108.4	249	204.0	142.8	309	253.1	177.2
10	8.2	5.7	70	57.3	40.2	130	106.5	74.6	190	155.6	109.0	250	204.8	143.4	310	253.9	177.8
11	9.0	6.3	71	58.2	40.7	131	107.3	75.1	191	156.5	109.6	251	205.6	144.0	311	254.8	178.4
12	9.8	6.9	72	59.0	41.3	132	108.1	75.7	192	157.3	110.1	252	206.4	144.5	312	255.6	179.0
13	10.6	7.5	73	59.8	41.9	133	108.9	76.3	193	158.1	110.7	253	207.2	145.1	313	256.4	179.5
14	11.5	8.0	74	60.6	42.4	134	109.8	76.9	194	158.9	111.3	254	208.1	145.7	314	257.2	180.1
15	12.3	8.6	75	61.4	43.0	135	110.6	77.4	195	159.7	111.8	255	208.9	146.3	315	258.0	180.7
16	13.1	9.2	76	62.3	43.6	136	111.4	78.0	196	160.6	112.4	256	209.7	146.8	316	258.9	181.3
17	13.9	9.8	77	63.1	44.2	137	112.2	78.6	197	161.4	113.0	257	210.5	147.4	317	259.7	181.8
18	14.7	10.3	78	63.9	44.7	138	113.0	79.2	198	162.2	113.6	258	211.3	148.0	318	260.6	182.4
19	15.6	10.9	79	64.7	45.3	139	113.9	79.7	199	163.0	114.1	259	212.2	148.6	319	261.3	183.0
20	16.4	11.5	80	65.5	45.9	140	114.7	80.3	200	163.8	114.7	260	213.0	149.1	320	262.1	183.5
21	17.2	12.0	81	66.4	46.5	141	115.5	80.9	201	164.6	115.3	261	213.8	149.7	321	262.9	184.1
22	18.0	12.6	82	67.2	47.0	142	116.3	81.4	202	165.5	115.9	262	214.6	150.3	322	263.8	184.7
23	18.8	13.2	83	68.0	47.6	143	117.1	82.0	203	166.3	116.4	263	215.4	150.9	323	264.6	185.3
24	19.7	13.8	84	68.8	48.2	144	118.0	82.6	204	167.1	117.0	264	216.3	151.4	324	265.4	185.8
25	20.5	14.3	85	69.6	48.8	145	118.8	83.2	205	167.9	117.6	265	217.1	152.0	325	266.2	186.4
26	21.3	14.9	86	70.4	49.3	146	119.6	83.7	206	168.7	118.2	266	217.9	152.6	326	267.0	187.0
27	22.1	15.5	87	71.3	49.9	147	120.4	84.3	207	169.6	118.7	267	218.7	153.1	327	267.9	187.6
28	22.9	16.1	88	72.1	50.5	148	121.2	84.9	208	170.4	119.3	268	219.5	153.7	328	268.7	188.1
29	23.8	16.6	89	72.9	51.0	149	122.1	85.5	209	171.2	119.9	269	220.4	154.3	329	269.5	188.7
30	24.6	17.2	90	73.7	51.6	150	122.9	86.0	210	172.0	120.5	270	221.2	154.9	330	270.3	189.3
31	25.4	17.8	91	74.5	52.2	151	123.7	86.6	211	172.8	121.0	271	222.0	155.4	331	271.1	189.9
32	26.2	18.4	92	75.4	52.8	152	124.5	87.2	212	173.7	121.6	272	222.8	156.0	332	272.0	190.4
33	27.0	18.9	93	76.2	53.3	153	125.3	87.8	213	174.5	122.2	273	223.6	156.6	333	272.8	191.0
34	27.9	19.5	94	77.0	53.9	154	126.1	88.3	214	175.3	122.7	274	224.4	157.2	334	273.6	191.6
35	28.7	20.1	95	77.8	54.5	155	127.0	88.9	215	176.1	123.3	275	225.3	157.7	335	274.4	192.1
36	29.5	20.6	96	78.6	55.1	156	127.8	89.5	216	176.9	123.9	276	226.1	158.3	336	275.2	192.7
37	30.3	21.2	97	79.5	55.6	157	128.6	90.1	217	177.8	124.5	277	226.9	158.9	337	276.1	193.3
38	31.1	21.8	98	80.3	56.2	158	129.4	90.6	218	178.6	125.0	278	227.7	159.5	338	276.9	193.9
39	31.9	22.4	99	81.1	56.8	159	130.2	91.2	219	179.4	125.6	279	228.5	160.0	339	277.7	194.4
40	32.8	22.9	100	81.9	57.4	160	131.1	91.8	220	180.2	126.2	280	229.4	160.6	340	278.5	195.0
41	33.6	23.5	101	82.7	57.9	161	131.9	92.3	221	181.0	126.8	281	230.2	161.2	341	279.3	195.6
42	34.4	24.1	102	83.6	58.5	162	132.7	92.9	222	181.9	127.3	282	231.0	161.7	342	280.1	196.2
43	35.2	24.7	103	84.4	59.1	163	133.5	93.5	223	182.7	127.9	283	231.8	162.3	343	281.0	196.7
44	36.0	25.2	104	85.2	59.7	164	134.3	94.1	224	183.5	128.5	284	232.6	162.9	344	281.8	197.3
45	36.9	25.8	105	86.0	60.2	165	135.2	94.6	225	184.3	129.1	285	233.5	163.5	345	282.6	197.9
46	37.7	26.4	106	86.8	60.8	166	136.0	95.2	226	185.1	129.6	286	234.3	164.0	346	283.4	198.5
47	38.5	27.0	107	87.6	61.4	167	136.8	95.8	227	185.9	130.2	287	235.1	164.6	347	284.2	199.0
48	39.3	27.5	108	88.5	61.9	168	137.6	96.4	228	186.8	130.8	288	235.9	165.2	348	285.1	199.6
49	40.1	28.1	109	89.3	62.5	169	138.4	96.9	229	187.6	131.3	289	236.7	165.8	349	285.9	200.2
50	41.0	28.7	110	90.1	63.1	170	139.3	97.5	230	188.4	131.9	290	237.6	166.3	350	286.7	200.8
51	41.8	29.3	111	90.9	63.7	171	140.1	98.1	231	189.2	132.5	291	238.4	166.9	351	287.5	201.3
52	42.6	29.8	112	91.7	64.2	172	140.9	98.7	232	190.0	133.1	292	239.2	167.5	352	288.3	201.9
53	43.4	30.4	113	92.6	64.8	173	141.7	99.2	233	190.9	133.6	293	240.0	168.1	353	289.2	202.5
54	44.2	31.0	114	93.4	65.4	174	142.5	99.8	234	191.7	134.2	294	240.8	168.6	354	290.0	203.0
55	45.1	31.5	115	94.2	66.0	175	143.4	100.4	235	192.5	134.8	295	241.6	169.2	355	290.8	203.6
56	45.9	32.1	116	95.0	66.5	176	144.2	100.9	236	193.3	135.4	296	242.5	169.8	356	291.6	204.2
57	46.7	32.7	117	95.8	67.1	177	145.0	101.5	237	194.1	135.9	297	243.3	170.4	357	292.4	204.8
58	47.5	33.3	118	96.7	67.7	178	145.8	102.1	238	195.0	136.5	298	244.1	170.9	358	293.3	205.3
59	48.3	33.8	119	97.5	68.3	179	146.6	102.7	239	195.8	137.1	299	244.9	171.5	359	294.1	205.9
60	49.1	34.4	120	98.3	68.8	180	147.4	103.2	240	196.6	137.7	300	245.7	172.1	360	294.9	206.5

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	295.7	207.1	421	344.9	241.5	481	394.0	275.9	541	443.2	310.3	601	492.3	344.7	661	541.5	379.1
362	296.5	207.6	422	345.7	242.0	482	394.8	276.5	542	444.0	310.9	602	493.1	345.3	662	542.3	379.7
363	297.4	208.2	423	346.5	242.6	483	395.7	277.0	543	444.8	311.5	603	493.9	345.9	663	543.1	380.3
364	298.2	208.8	424	347.3	243.2	484	396.5	277.6	544	445.6	312.0	604	494.8	346.4	664	543.9	380.9
365	299.0	209.4	425	348.1	243.8	485	397.3	278.2	545	446.4	312.6	605	495.6	347.0	665	544.7	381.4
366	299.8	209.9	426	349.0	244.3	486	398.1	278.8	546	447.3	313.2	606	496.4	347.6	666	545.6	382.0
367	300.6	210.5	427	349.8	244.9	487	398.9	279.3	547	448.1	313.7	607	497.2	348.2	667	546.4	382.6
368	301.4	211.1	428	350.6	245.5	488	399.7	279.9	548	448.9	314.3	608	498.0	348.7	668	547.2	383.1
369	302.3	211.6	429	351.4	246.1	489	400.6	280.5	549	449.7	314.9	609	498.9	349.3	669	548.0	383.7
370	303.1	212.2	430	352.2	246.6	490	401.4	281.1	550	450.5	315.5	610	499.7	349.9	670	548.8	384.3
371	303.9	212.8	431	353.1	247.2	491	402.2	281.6	551	451.4	316.0	611	500.5	350.5	671	549.7	384.9
372	304.7	213.4	432	353.9	247.8	492	403.0	282.2	552	452.2	316.6	612	501.3	351.0	672	550.5	385.4
373	305.5	213.9	433	354.7	248.4	493	403.8	282.8	553	453.0	317.2	613	502.1	351.6	673	551.3	386.0
374	306.4	214.5	434	355.5	248.9	494	404.7	283.3	554	453.8	317.8	614	503.0	352.2	674	552.1	386.6
375	307.2	215.1	435	356.3	249.5	495	405.5	283.9	555	454.6	318.3	615	503.8	352.7	675	552.9	387.2
376	308.0	215.7	436	357.2	250.1	496	406.3	284.5	556	455.4	318.9	616	504.6	353.3	676	553.7	387.7
377	308.8	216.2	437	358.0	250.7	497	407.1	285.1	557	456.3	319.5	617	505.4	353.9	677	554.6	388.3
378	309.6	216.8	438	358.8	251.2	498	407.9	285.6	558	457.1	320.1	618	506.2	354.5	678	555.4	388.9
379	310.5	217.4	439	359.6	251.8	499	408.8	286.2	559	457.9	320.6	619	507.1	355.0	679	556.2	389.5
380	311.3	218.0	440	360.4	252.4	500	409.6	286.8	560	458.7	321.2	620	507.9	355.6	680	557.0	390.0
381	312.1	218.5	441	361.2	252.9	501	410.4	287.4	561	459.5	321.8	621	508.7	356.2	681	557.8	390.6
382	312.9	219.1	442	362.1	253.5	502	411.2	287.9	562	460.4	322.3	622	509.5	356.8	682	558.7	391.2
383	313.7	219.7	443	362.9	254.1	503	412.0	288.5	563	461.2	322.9	623	510.3	357.3	683	559.5	391.8
384	314.6	220.3	444	363.7	254.7	504	412.9	289.1	564	462.0	323.5	624	511.2	357.9	684	560.3	392.3
385	315.4	220.8	445	364.5	255.2	505	413.7	289.7	565	462.8	324.1	625	512.0	358.5	685	561.1	392.9
386	316.2	221.4	446	365.3	255.8	506	414.5	290.2	566	463.6	324.6	626	512.8	359.1	686	561.9	393.5
387	317.0	222.0	447	366.2	256.4	507	415.3	290.8	567	464.5	325.2	627	513.6	359.6	687	562.8	394.0
388	317.8	222.5	448	367.0	257.0	508	416.1	291.4	568	465.3	325.8	628	514.4	360.2	688	563.6	394.6
389	318.7	223.1	449	367.8	257.5	509	416.9	292.0	569	466.1	326.4	629	515.2	360.8	689	564.4	395.2
390	319.5	223.7	450	368.6	258.1	510	417.8	292.5	570	466.9	326.9	630	516.1	361.4	690	565.2	395.8
391	320.3	224.3	451	369.4	258.7	511	418.6	293.1	571	467.7	327.5	631	516.9	361.9	691	566.0	396.3
392	321.1	224.8	452	370.3	259.3	512	419.4	293.7	572	468.6	328.1	632	517.7	362.5	692	566.9	396.9
393	321.9	225.4	453	371.1	259.8	513	420.2	294.2	573	469.4	328.7	633	518.5	363.1	693	567.7	397.5
394	322.7	226.0	454	371.9	260.4	514	421.0	294.8	574	470.2	329.2	634	519.3	363.6	694	568.5	398.1
395	323.6	226.6	455	372.7	261.0	515	421.9	295.4	575	471.0	329.8	635	520.2	364.2	695	569.3	398.6
396	324.4	227.1	456	373.5	261.6	516	422.7	296.0	576	471.8	330.4	636	521.0	364.8	696	570.1	399.2
397	325.2	227.7	457	374.4	262.1	517	423.5	296.5	577	472.7	331.0	637	521.8	365.4	697	570.9	399.8
398	326.0	228.3	458	375.2	262.7	518	424.3	297.1	578	473.5	331.5	638	522.6	365.9	698	571.8	400.4
399	326.8	228.9	459	376.0	263.3	519	425.1	297.7	579	474.3	332.1	639	523.4	366.5	699	572.6	400.9
400	327.7	229.4	460	376.8	263.8	520	426.0	298.3	580	475.1	332.7	640	524.3	367.1	700	573.4	401.5
401	328.5	230.0	461	377.6	264.4	521	426.8	298.8	581	475.9	333.2	641	525.1	367.7	701	574.2	402.1
402	329.3	230.6	462	378.4	265.0	522	427.6	299.4	582	476.7	333.8	642	525.9	368.2	702	575.0	402.7
403	330.1	231.2	463	379.3	265.6	523	428.4	300.0	583	477.6	334.4	643	526.7	368.8	703	575.9	403.2
404	330.9	231.7	464	380.1	266.1	524	429.2	300.6	584	478.4	335.0	644	527.5	369.4	704	576.7	403.8
405	331.8	232.3	465	380.9	266.7	525	430.1	301.1	585	479.2	335.5	645	528.4	370.0	705	577.5	404.4
406	332.6	232.9	466	381.7	267.3	526	430.9	301.7	586	480.0	336.1	646	529.2	370.5	706	578.3	404.9
407	333.4	233.4	467	382.5	267.9	527	431.7	302.3	587	480.8	336.7	647	530.0	371.1	707	579.1	405.5
408	334.2	234.0	468	383.4	268.4	528	432.5	302.8	588	481.7	337.3	648	530.8	371.7	708	580.0	406.1
409	335.0	234.6	469	384.2	269.0	529	433.3	303.4	589	482.5	337.8	649	531.6	372.3	709	580.8	406.7
410	335.9	235.2	470	385.0	269.6	530	434.2	304.0	590	483.3	338.4	650	532.4	372.8	710	581.6	407.2
411	336.7	235.7	471	385.8	270.2	531	435.0	304.6	591	484.1	339.0	651	533.3	373.4	711	582.4	407.8
412	337.5	236.3	472	386.6	270.7	532	435.8	305.1	592	484.9	339.6	652	534.1	374.0	712	583.2	408.4
413	338.3	236.9	473	387.5	271.3	533	436.6	305.7	593	485.8	340.1	653	534.9	374.5	713	584.1	409.0
414	339.1	237.5	474	388.3	271.9	534	437.4	306.3	594	486.6	340.7	654	535.7	375.1	714	584.9	409.5
415	339.9	238.0	475	389.1	272.4	535	438.2	306.9	595	487.4	341.3	655	536.5	375.7	715	585.7	410.1
416	340.8	238.6	476	389.9	273.0	536	439.1	307.4	596	488.2	341.9	656	537.4	376.3	716	586.5	410.7
417	341.6	239.2	477	390.7	273.6	537	439.9	308.0	597	489.0	342.4	657	538.2	376.8	717	587.3	411.3
418	342.4	239.8	478	391.6	274.2	538	440.7	308.6	598	489.9	343.0	658	539.0	377.4	718	588.2	411.8
419	343.2	240.3	479	392.4	274.7	539	441.5	309.2	599	490.7	343.6	659	539.8	378.0	719	589.0	412.4
420	344.0	240.9	480	393.2	275.3	540	442.3	309.7	600	491.5	344.1	660	540.6	378.6	720	589.8	413.0

D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI
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D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	0.8	0.6	61	49.4	35.9	121	97.9	71.1	181	146.4	106.4	241	195.0	141.7	301	243.5	176.9
2	1.6	1.2	62	50.2	36.4	122	98.7	71.7	182	147.2	107.0	242	195.8	142.2	302	244.3	177.5
3	2.4	1.8	63	51.0	37.0	123	99.5	72.3	183	148.1	107.6	243	196.6	142.8	303	245.1	178.1
4	3.2	2.4	64	51.8	37.6	124	100.3	72.9	184	148.9	108.2	244	197.4	143.4	304	245.9	178.7
5	4.0	2.9	65	52.6	38.2	125	101.1	73.5	185	149.7	108.7	245	198.2	144.0	305	246.8	179.3
6	4.9	3.5	66	53.4	38.8	126	101.9	74.1	186	150.5	109.3	246	199.0	144.6	306	247.6	179.9
7	5.7	4.1	67	54.2	39.4	127	102.7	74.6	187	151.3	109.9	247	199.8	145.2	307	248.4	180.4
8	6.5	4.7	68	55.0	40.0	128	103.6	75.2	188	152.1	110.5	248	200.6	145.8	308	249.2	181.0
9	7.3	5.3	69	55.8	40.6	129	104.4	75.8	189	152.9	111.1	249	201.4	146.4	309	250.0	181.6
10	8.1	5.9	70	56.6	41.1	130	105.2	76.4	190	153.7	111.7	250	202.3	146.9	310	250.8	182.2
11	8.9	6.5	71	57.4	41.7	131	106.0	77.0	191	154.5	112.3	251	203.1	147.5	311	251.6	182.8
12	9.7	7.1	72	58.2	42.3	132	106.8	77.6	192	155.3	112.9	252	203.9	148.1	312	252.4	183.4
13	10.5	7.6	73	59.1	42.9	133	107.6	78.2	193	156.1	113.4	253	204.7	148.7	313	253.2	184.0
14	11.3	8.2	74	59.9	43.5	134	108.4	78.8	194	156.9	114.0	254	205.5	149.3	314	254.0	184.6
15	12.1	8.8	75	60.7	44.1	135	109.2	79.4	195	157.8	114.6	255	206.3	149.9	315	254.8	185.2
16	12.9	9.4	76	61.5	44.7	136	110.0	79.9	196	158.6	115.2	256	207.1	150.5	316	255.6	185.7
17	13.8	10.0	77	62.3	45.3	137	110.8	80.5	197	159.4	115.8	257	207.9	151.1	317	256.5	186.3
18	14.6	10.6	78	63.1	45.8	138	111.6	81.1	198	160.2	116.4	258	208.7	151.6	318	257.3	186.9
19	15.4	11.2	79	63.9	46.4	139	112.5	81.7	199	161.0	117.0	259	209.5	152.2	319	258.1	187.5
20	16.2	11.8	80	64.7	47.0	140	113.3	82.3	200	161.8	117.6	260	210.3	152.8	320	258.9	188.1
21	17.0	12.3	81	65.5	47.6	141	114.1	82.9	201	162.6	118.1	261	211.2	153.4	321	259.7	188.7
22	17.8	12.9	82	66.3	48.2	142	114.9	83.5	202	163.4	118.7	262	212.0	154.0	322	260.5	189.3
23	18.6	13.5	83	67.1	48.8	143	115.7	84.1	203	164.2	119.3	263	212.8	154.6	323	261.3	189.9
24	19.4	14.1	84	68.0	49.4	144	116.5	84.6	204	165.0	119.9	264	213.6	155.2	324	262.1	190.4
25	20.2	14.7	85	68.8	50.0	145	117.3	85.2	205	165.8	120.5	265	214.4	155.8	325	262.9	191.0
26	21.0	15.3	86	69.6	50.5	146	118.1	85.8	206	166.7	121.1	266	215.2	156.4	326	263.7	191.6
27	21.8	15.9	87	70.4	51.1	147	118.9	86.4	207	167.5	121.7	267	216.0	156.9	327	264.5	192.2
28	22.7	16.5	88	71.2	51.7	148	119.7	87.0	208	168.3	122.3	268	216.8	157.5	328	265.4	192.8
29	23.5	17.0	89	72.0	52.3	149	120.5	87.6	209	169.1	122.8	269	217.6	158.1	329	266.2	193.4
30	24.3	17.6	90	72.8	52.9	150	121.4	88.2	210	169.9	123.4	270	218.4	158.7	330	267.0	194.0
31	25.1	18.2	91	73.6	53.5	151	122.2	88.8	211	170.7	124.0	271	219.2	159.3	331	267.8	194.6
32	25.9	18.8	92	74.4	54.1	152	123.0	89.3	212	171.5	124.6	272	220.1	159.9	332	268.6	195.1
33	26.7	19.4	93	75.2	54.7	153	123.8	89.9	213	172.3	125.2	273	220.9	160.5	333	269.4	195.7
34	27.5	20.0	94	76.0	55.3	154	124.6	90.5	214	173.1	125.8	274	221.7	161.1	334	270.2	196.3
35	28.3	20.6	95	76.9	55.8	155	125.4	91.1	215	173.9	126.4	275	222.5	161.6	335	271.0	196.9
36	29.1	21.2	96	77.7	56.4	156	126.2	91.7	216	174.7	127.0	276	223.3	162.2	336	271.8	197.5
37	29.9	21.7	97	78.5	57.0	157	127.0	92.3	217	175.6	127.5	277	224.1	162.8	337	272.6	198.1
38	30.7	22.3	98	79.3	57.6	158	127.8	92.9	218	176.4	128.1	278	224.9	163.4	338	273.4	198.7
39	31.6	22.9	99	80.1	58.2	159	128.6	93.5	219	177.2	128.7	279	225.7	164.0	339	274.3	199.3
40	32.4	23.5	100	80.9	58.8	160	129.4	94.0	220	178.0	129.3	280	226.5	164.6	340	275.1	199.8
41	33.2	24.1	101	81.7	59.4	161	130.3	94.6	221	178.8	129.9	281	227.3	165.2	341	275.9	200.4
42	34.0	24.7	102	82.5	60.0	162	131.1	95.2	222	179.6	130.5	282	228.1	165.8	342	276.7	201.0
43	34.8	25.3	103	83.3	60.5	163	131.9	95.8	223	180.4	131.1	283	229.0	166.3	343	277.5	201.6
44	35.6	25.9	104	84.1	61.1	164	132.7	96.4	224	181.2	131.7	284	229.8	166.9	344	278.3	202.2
45	36.4	26.5	105	84.9	61.7	165	133.5	97.0	225	182.0	132.3	285	230.6	167.5	345	279.1	202.8
46	37.2	27.0	106	85.8	62.3	166	134.3	97.6	226	182.8	132.8	286	231.4	168.1	346	279.9	203.4
47	38.0	27.6	107	86.6	62.9	167	135.1	98.2	227	183.6	133.4	287	232.2	168.7	347	280.7	204.0
48	38.8	28.2	108	87.4	63.5	168	135.9	98.7	228	184.5	134.0	288	233.0	169.3	348	281.5	204.5
49	39.6	28.8	109	88.2	64.1	169	136.7	99.3	229	185.3	134.6	289	233.8	169.9	349	282.3	205.1
50	40.5	29.4	110	89.0	64.7	170	137.5	99.9	230	186.1	135.2	290	234.6	170.5	350	283.2	205.7
51	41.3	30.0	111	89.8	65.2	171	138.3	100.5	231	186.9	135.8	291	235.4	171.0	351	284.0	206.3
52	42.1	30.6	112	90.6	65.8	172	139.2	101.1	232	187.7	136.4	292	236.2	171.6	352	284.8	206.9
53	42.9	31.2	113	91.4	66.4	173	140.0	101.7	233	188.5	137.0	293	237.0	172.2	353	285.6	207.5
54	43.7	31.7	114	92.2	67.0	174	140.8	102.3	234	189.3	137.5	294	237.9	172.8	354	286.4	208.1
55	44.5	32.3	115	93.0	67.6	175	141.6	102.9	235	190.1	138.1	295	238.7	173.4	355	287.2	208.7
56	45.3	32.9	116	93.8	68.2	176	142.4	103.5	236	190.9	138.7	296	239.5	174.0	356	288.0	209.3
57	46.1	33.5	117	94.7	68.8	177	143.2	104.0	237	191.7	139.3	297	240.3	174.6	357	288.8	209.8
58	46.9	34.1	118	95.5	69.4	178	144.0	104.6	238	192.5	139.9	298	241.1	175.2	358	289.6	210.4
59	47.7	34.7	119	96.3	69.9	179	144.8	105.2	239	193.4	140.5	299	241.9	175.7	359	290.4	211.0
60	48.5	35.3	120	97.1	70.5	180	145.6	105.8	240	194.2	141.1	300	242.7	176.3	360	291.2	211.6
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	292.1	212.2	421	340.6	247.5	481	389.1	282.7	541	437.7	318.0	601	486.2	353.3	661	534.8	388.5
362	292.9	212.8	422	341.4	248.0	482	389.9	283.3	542	438.5	318.6	602	487.0	353.8	662	535.6	389.1
363	293.7	213.4	423	342.2	248.6	483	390.8	283.9	543	439.3	319.2	603	487.8	354.4	663	536.4	389.7
364	294.5	214.0	424	343.0	249.2	484	391.6	284.5	544	440.2	319.8	604	488.6	355.0	664	537.2	390.3
365	295.3	214.5	425	343.8	249.8	485	392.4	285.1	545	440.9	320.3	605	489.5	355.6	665	538.0	390.9
366	296.1	215.1	426	344.6	250.4	486	393.2	285.7	546	441.7	320.9	606	490.3	356.2	666	538.8	391.5
367	296.9	215.7	427	345.5	251.0	487	394.0	286.3	547	442.5	321.5	607	491.1	356.8	667	539.6	392.1
368	297.7	216.3	428	346.3	251.6	488	394.8	286.8	548	443.3	322.1	608	491.9	357.4	668	540.4	392.6
369	298.5	216.9	429	347.1	252.2	489	395.6	287.4	549	444.2	322.7	609	492.7	358.0	669	541.2	393.2
370	299.3	217.5	430	347.9	252.7	490	396.4	288.0	550	445.0	323.3	610	493.5	358.5	670	542.0	393.8
371	300.1	218.1	431	348.7	253.3	491	397.2	288.6	551	445.8	323.9	611	494.3	359.1	671	542.9	394.4
372	301.0	218.7	432	349.5	253.9	492	398.0	289.2	552	446.6	324.5	612	495.1	359.7	672	543.7	395.0
373	301.8	219.2	433	350.3	254.5	493	398.8	289.8	553	447.4	325.0	613	495.9	360.3	673	544.5	395.6
374	302.6	219.8	434	351.1	255.1	494	399.7	290.4	554	448.2	325.6	614	496.7	360.9	674	545.3	396.2
375	303.4	220.4	435	351.9	255.7	495	400.5	291.0	555	449.0	326.2	615	497.5	361.5	675	546.1	396.8
376	304.2	221.0	436	352.7	256.3	496	401.3	291.5	556	449.8	326.8	616	498.4	362.1	676	546.9	397.3
377	305.0	221.6	437	353.5	256.9	497	402.1	292.1	557	450.6	327.4	617	499.2	362.7	677	547.7	397.9
378	305.8	222.2	438	354.3	257.4	498	402.9	292.7	558	451.4	328.0	618	500.0	363.3	678	548.5	398.5
379	306.6	222.8	439	355.2	258.0	499	403.7	293.3	559	452.2	328.6	619	500.8	363.8	679	549.3	399.1
380	307.4	223.4	440	356.0	258.6	500	404.5	293.9	560	453.0	329.2	620	501.6	364.4	680	550.1	399.7
381	308.2	223.9	441	356.8	259.2	501	405.3	294.5	561	453.9	329.7	621	502.4	365.0	681	550.9	400.3
382	309.0	224.5	442	357.6	259.8	502	406.1	295.1	562	454.7	330.3	622	503.2	365.6	682	551.7	400.9
383	309.9	225.1	443	358.4	260.4	503	406.9	295.7	563	455.5	330.9	623	504.0	366.2	683	552.6	401.5
384	310.7	225.7	444	359.2	261.0	504	407.7	296.2	564	456.3	331.5	624	504.8	366.8	684	553.4	402.0
385	311.5	226.3	445	360.0	261.6	505	408.6	296.8	565	457.1	332.1	625	505.6	367.4	685	554.2	402.6
386	312.3	226.9	446	360.8	262.2	506	409.4	297.4	566	457.9	332.7	626	506.4	368.0	686	555.0	403.2
387	313.1	227.5	447	361.6	262.7	507	410.2	298.0	567	458.7	333.3	627	507.3	368.5	687	555.8	403.8
388	313.9	228.1	448	362.4	263.3	508	411.0	298.6	568	459.5	333.9	628	508.1	369.1	688	556.6	404.4
389	314.7	228.6	449	363.2	263.9	509	411.8	299.2	569	460.3	334.4	629	508.9	369.7	689	557.4	405.0
390	315.5	229.2	450	364.1	264.5	510	412.6	299.8	570	461.1	335.0	630	509.7	370.3	690	558.2	405.6
391	316.3	229.8	451	364.9	265.1	511	413.4	300.4	571	461.9	335.6	631	510.5	370.9	691	559.0	406.2
392	317.1	230.4	452	365.7	265.7	512	414.2	300.9	572	462.8	336.2	632	511.3	371.5	692	559.8	406.7
393	317.9	231.0	453	366.5	266.3	513	415.0	301.5	573	463.6	336.8	633	512.1	372.1	693	560.6	407.3
394	318.8	231.6	454	367.3	266.9	514	415.8	302.1	574	464.4	337.4	634	512.9	372.7	694	561.5	407.9
395	319.6	232.2	455	368.1	267.4	515	416.6	302.7	575	465.2	338.0	635	513.7	373.2	695	562.3	408.5
396	320.4	232.8	456	368.9	268.0	516	417.5	303.3	576	466.0	338.6	636	514.5	373.8	696	563.1	409.1
397	321.2	233.4	457	369.7	268.6	517	418.3	303.9	577	466.8	339.2	637	515.3	374.4	697	563.9	409.7
398	322.0	233.9	458	370.5	269.2	518	419.1	304.5	578	467.6	339.7	638	516.2	375.0	698	564.7	410.3
399	322.8	234.5	459	371.3	269.8	519	419.9	305.1	579	468.4	340.3	639	517.0	375.6	699	565.5	410.9
400	323.6	235.1	460	372.1	270.4	520	420.7	305.6	580	469.2	340.9	640	517.8	376.2	700	566.3	411.4
401	324.4	235.7	461	373.0	271.0	521	421.5	306.2	581	470.0	341.5	641	518.6	376.8	701	567.1	412.0
402	325.2	236.3	462	373.8	271.6	522	422.3	306.8	582	470.8	342.1	642	519.4	377.4	702	567.9	412.6
403	326.0	236.9	463	374.6	272.1	523	423.1	307.4	583	471.7	342.7	643	520.2	377.9	703	568.7	413.2
404	326.8	237.5	464	375.4	272.7	524	423.9	308.0	584	472.5	343.3	644	521.0	378.5	704	569.5	413.8
405	327.7	238.1	465	376.2	273.3	525	424.7	308.6	585	473.3	343.9	645	521.8	379.1	705	570.4	414.4
406	328.5	238.6	466	377.0	273.9	526	425.5	309.2	586	474.1	344.4	646	522.6	379.7	706	571.2	415.0
407	329.3	239.2	467	377.8	274.5	527	426.4	309.8	587	474.9	345.0	647	523.4	380.3	707	572.0	415.6
408	330.1	239.8	468	378.6	275.1	528	427.2	310.4	588	475.7	345.6	648	524.2	380.9	708	572.8	416.2
409	330.9	240.4	469	379.4	275.7	529	428.0	310.9	589	476.5	346.2	649	525.1	381.5	709	573.6	416.7
410	331.7	241.0	470	380.2	276.3	530	428.8	311.5	590	477.3	346.8	650	525.9	382.1	710	574.4	417.3
411	332.5	241.6	471	381.0	276.8	531	429.6	312.1	591	478.1	347.4	651	526.7	382.6	711	575.2	417.9
412	333.3	242.2	472	381.9	277.4	532	430.4	312.7	592	478.9	348.0	652	527.5	383.2	712	576.0	418.5
413	334.1	242.8	473	382.7	278.0	533	431.2	313.3	593	479.7	348.6	653	528.3	383.8	713	576.8	419.1
414	334.9	243.3	474	383.5	278.6	534	432.0	313.9	594	480.6	349.1	654	529.1	384.4	714	577.6	419.7
415	335.7	243.9	475	384.3	279.2	535	432.8	314.5	595	481.4	349.7	655	529.9	385.0	715	578.4	420.3
416	336.6	244.5	476	385.1	279.8	536	433.6	315.1	596	482.2	350.3	656	530.7	385.6	716	579.3	420.9
417	337.4	245.1	477	385.9	280.4	537	434.4	315.6	597	483.0	350.9	657	531.5	386.2	717	580.1	421.4
418	338.2	245.7	478	386.7	281.0	538	435.3	316.2	598	483.8	351.5	658	532.3	386.8	718	580.9	422.0
419	339.0	246.3	479	387.5	281.5	539	436.1	316.8	599	484.6	352.1	659	533.1	387.4	719	581.7	422.6
420	339.8	246.9	480	388.3	282.1	540	436.9	317.4	600	485.4	352.7	660	534.0	387.9	720	582.5	423.2

D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI
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D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	0.8	0.6	61	48.7	36.7	121	96.6	72.8	181	144.6	108.9	241	192.5	145.0	301	240.4	181.1
2	1.6	1.2	62	49.5	37.3	122	97.4	73.4	182	145.4	109.5	242	193.3	145.6	302	241.2	181.7
3	2.4	1.8	63	50.3	37.9	123	98.2	74.0	183	146.2	110.1	243	194.1	146.2	303	242.0	182.3
4	3.2	2.4	64	51.1	38.5	124	99.0	74.6	184	146.9	110.7	244	194.9	146.8	304	242.8	183.0
5	4.0	3.0	65	51.9	39.1	125	99.8	75.2	185	147.7	111.3	245	195.7	147.4	305	243.6	183.6
6	4.8	3.6	66	52.7	39.7	126	100.6	75.8	186	148.5	111.9	246	196.5	148.0	306	244.4	184.2
7	5.6	4.2	67	53.5	40.3	127	101.4	76.4	187	149.3	112.5	247	197.3	148.6	307	245.2	184.8
8	6.4	4.8	68	54.3	40.9	128	102.2	77.0	188	150.1	113.1	248	198.1	149.3	308	246.0	185.4
9	7.2	5.4	69	55.1	41.5	129	103.0	77.6	189	150.9	113.7	249	198.9	149.9	309	246.8	186.0
10	8.0	6.0	70	55.9	42.1	130	103.8	78.2	190	151.7	114.3	250	199.7	150.5	310	247.6	186.6
11	8.8	6.6	71	56.7	42.7	131	104.6	78.8	191	152.5	114.9	251	200.5	151.1	311	248.4	187.2
12	9.6	7.2	72	57.5	43.3	132	105.4	79.4	192	153.3	115.5	252	201.3	151.7	312	249.2	187.8
13	10.4	7.8	73	58.3	43.9	133	106.2	80.0	193	154.1	116.2	253	202.1	152.3	313	250.0	188.4
14	11.2	8.4	74	59.1	44.5	134	107.0	80.6	194	154.9	116.8	254	202.9	152.9	314	250.8	189.0
15	12.0	9.0	75	59.9	45.1	135	107.8	81.2	195	155.7	117.4	255	203.7	153.5	315	251.6	189.6
16	12.8	9.6	76	60.7	45.7	136	108.6	81.8	196	156.5	118.0	256	204.5	154.1	316	252.4	190.2
17	13.6	10.2	77	61.5	46.3	137	109.4	82.4	197	157.3	118.6	257	205.2	154.7	317	253.2	190.8
18	14.4	10.8	78	62.3	46.9	138	110.2	83.1	198	158.1	119.2	258	206.0	155.3	318	254.0	191.4
19	15.2	11.4	79	63.1	47.5	139	111.0	83.7	199	158.9	119.8	259	206.8	155.9	319	254.8	192.0
20	16.0	12.0	80	63.9	48.1	140	111.8	84.3	200	159.7	120.4	260	207.6	156.5	320	255.6	192.6
21	16.8	12.6	81	64.7	48.7	141	112.6	84.9	201	160.5	121.0	261	208.4	157.1	321	256.4	193.2
22	17.6	13.2	82	65.5	49.3	142	113.4	85.5	202	161.3	121.6	262	209.2	157.7	322	257.2	193.8
23	18.4	13.8	83	66.3	50.0	143	114.2	86.1	203	162.1	122.2	263	210.0	158.3	323	258.0	194.4
24	19.2	14.4	84	67.1	50.6	144	115.0	86.7	204	162.9	122.8	264	210.8	158.9	324	258.8	195.0
25	20.0	15.0	85	67.9	51.2	145	115.8	87.3	205	163.7	123.4	265	211.6	159.5	325	259.6	195.6
26	20.8	15.6	86	68.7	51.8	146	116.6	87.9	206	164.5	124.0	266	212.4	160.1	326	260.4	196.2
27	21.6	16.2	87	69.5	52.4	147	117.4	88.5	207	165.3	124.6	267	213.2	160.7	327	261.2	196.8
28	22.4	16.9	88	70.3	53.0	148	118.2	89.1	208	166.1	125.2	268	214.0	161.3	328	262.0	197.4
29	23.2	17.5	89	71.1	53.6	149	119.0	89.7	209	166.9	125.8	269	214.8	161.9	329	262.8	198.0
30	24.0	18.1	90	71.9	54.2	150	119.8	90.3	210	167.7	126.4	270	215.6	162.5	330	263.6	198.6
31	24.8	18.7	91	72.7	54.8	151	120.6	90.9	211	168.5	127.0	271	216.4	163.1	331	264.3	199.2
32	25.6	19.3	92	73.5	55.4	152	121.4	91.5	212	169.3	127.6	272	217.2	163.7	332	265.1	199.8
33	26.4	19.9	93	74.3	56.0	153	122.2	92.1	213	170.1	128.2	273	218.0	164.3	333	265.9	200.4
34	27.2	20.5	94	75.1	56.6	154	123.0	92.7	214	170.9	128.8	274	218.8	164.9	334	266.7	201.0
35	28.0	21.1	95	75.9	57.2	155	123.8	93.3	215	171.7	129.4	275	219.6	165.5	335	267.5	201.6
36	28.8	21.7	96	76.7	57.8	156	124.6	93.9	216	172.5	130.0	276	220.4	166.1	336	268.3	202.2
37	29.5	22.3	97	77.5	58.4	157	125.4	94.5	217	173.3	130.6	277	221.2	166.7	337	269.1	202.8
38	30.3	22.9	98	78.3	59.0	158	126.2	95.1	218	174.1	131.2	278	222.0	167.3	338	269.9	203.4
39	31.1	23.5	99	79.1	59.6	159	127.0	95.7	219	174.9	131.8	279	222.8	167.9	339	270.7	204.0
40	31.9	24.1	100	79.9	60.2	160	127.8	96.3	220	175.7	132.4	280	223.6	168.5	340	271.5	204.6
41	32.7	24.7	101	80.7	60.8	161	128.6	96.9	221	176.5	133.0	281	224.4	169.1	341	272.3	205.2
42	33.5	25.3	102	81.5	61.4	162	129.4	97.5	222	177.3	133.6	282	225.2	169.7	342	273.1	205.8
43	34.3	25.9	103	82.3	62.0	163	130.2	98.1	223	178.1	134.2	283	226.0	170.3	343	273.9	206.4
44	35.1	26.5	104	83.1	62.6	164	131.0	98.7	224	178.9	134.8	284	226.8	170.9	344	274.7	207.0
45	35.9	27.1	105	83.9	63.2	165	131.8	99.3	225	179.7	135.4	285	227.6	171.5	345	275.5	207.6
46	36.7	27.7	106	84.7	63.8	166	132.6	99.9	226	180.5	136.0	286	228.4	172.1	346	276.3	208.2
47	37.5	28.3	107	85.5	64.4	167	133.4	100.5	227	181.3	136.6	287	229.2	172.7	347	277.1	208.8
48	38.3	28.9	108	86.3	65.0	168	134.2	101.1	228	182.1	137.2	288	230.0	173.3	348	277.9	209.4
49	39.1	29.5	109	87.1	65.6	169	135.0	101.7	229	182.9	137.8	289	230.8	173.9	349	278.7	210.0
50	39.9	30.1	110	87.8	66.2	170	135.8	102.3	230	183.7	138.4	290	231.6	174.5	350	279.5	210.6
51	40.7	30.7	111	88.6	66.8	171	136.6	102.9	231	184.5	139.0	291	232.4	175.1	351	280.3	211.2
52	41.5	31.3	112	89.4	67.4	172	137.4	103.5	232	185.3	139.6	292	233.2	175.7	352	281.1	211.8
53	42.3	31.9	113	90.2	68.0	173	138.2	104.1	233	186.1	140.2	293	234.0	176.3	353	281.9	212.4
54	43.1	32.5	114	91.0	68.6	174	139.0	104.7	234	186.9	140.8	294	234.8	176.9	354	282.7	213.0
55	43.9	33.1	115	91.8	69.2	175	139.8	105.3	235	187.7	141.4	295	235.6	177.5	355	283.5	213.6
56	44.7	33.7	116	92.6	69.8	176	140.6	105.9	236	188.5	142.0	296	236.4	178.1	356	284.3	214.3
57	45.5	34.3	117	93.4	70.4	177	141.4	106.5	237	189.3	142.6	297	237.2	178.7	357	285.1	214.8
58	46.3	34.9	118	94.2	71.0	178	142.2	107.1	238	190.1	143.2	298	238.0	179.3	358	285.9	215.4
59	47.1	35.5	119	95.0	71.6	179	143.0	107.7	239	190.9	143.8	299	238.8	179.9	359	286.7	216.1
60	47.9	36.1	120	95.8	72.2	180	143.8	108.3	240	191.7	144.4	300	239.6	180.5	360	287.5	216.7
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	288.3	217.3	421	336.2	253.4	481	384.1	289.5	541	432.1	325.6	601	480.0	361.7	661	527.9	397.8
362	289.1	217.9	422	337.0	254.0	482	384.9	290.1	542	432.9	326.2	602	480.8	362.3	662	528.7	398.4
363	289.9	218.5	423	337.8	254.6	483	385.7	290.7	543	433.7	326.8	603	481.6	362.9	663	529.5	399.0
364	290.7	219.1	424	338.6	255.2	484	386.5	291.3	544	434.5	327.4	604	482.4	363.5	664	530.3	399.6
365	291.5	219.7	425	339.4	255.8	485	387.3	291.9	545	435.3	328.0	605	483.2	364.1	665	531.1	400.2
366	292.3	220.3	426	340.2	256.4	486	388.1	292.5	546	436.1	328.6	606	484.0	364.7	666	531.9	400.8
367	293.1	220.9	427	341.0	257.0	487	388.9	293.1	547	436.9	329.2	607	484.8	365.3	667	532.7	401.4
368	293.9	221.5	428	341.8	257.6	488	389.7	293.7	548	437.7	329.8	608	485.6	365.9	668	533.5	402.0
369	294.7	222.1	429	342.6	258.2	489	390.5	294.3	549	438.5	330.4	609	486.4	366.5	669	534.3	402.6
370	295.5	222.7	430	343.4	258.8	490	391.3	294.9	550	439.2	331.0	610	487.2	367.1	670	535.1	403.2
371	296.3	223.3	431	344.2	259.4	491	392.1	295.5	551	440.0	331.6	611	488.0	367.7	671	535.9	403.8
372	297.1	223.9	432	345.0	260.0	492	392.9	296.1	552	440.8	332.2	612	488.8	368.3	672	536.7	404.4
373	297.9	224.5	433	345.8	260.6	493	393.7	296.7	553	441.6	332.8	613	489.6	368.9	673	537.5	405.0
374	298.7	225.1	434	346.6	261.2	494	394.5	297.3	554	442.4	333.4	614	490.4	369.5	674	538.3	405.6
375	299.5	225.7	435	347.4	261.8	495	395.3	297.9	555	443.2	334.0	615	491.2	370.1	675	539.1	406.2
376	300.3	226.3	436	348.2	262.4	496	396.1	298.5	556	444.0	334.6	616	492.0	370.7	676	539.9	406.8
377	301.1	226.9	437	349.0	263.0	497	396.9	299.1	557	444.8	335.2	617	492.8	371.3	677	540.7	407.4
378	301.9	227.5	438	349.8	263.6	498	397.7	299.7	558	445.6	335.8	618	493.6	371.9	678	541.5	408.0
379	302.7	228.1	439	350.6	264.2	499	398.5	300.3	559	446.4	336.4	619	494.4	372.5	679	542.3	408.6
380	303.5	228.7	440	351.4	264.8	500	399.3	300.9	560	447.2	337.0	620	495.2	373.1	680	543.1	409.2
381	304.3	229.3	441	352.2	265.4	501	400.1	301.5	561	448.0	337.6	621	496.0	373.7	681	543.9	409.8
382	305.1	229.9	442	353.0	266.0	502	400.9	302.1	562	448.8	338.2	622	496.8	374.3	682	544.7	410.4
383	305.9	230.5	443	353.8	266.6	503	401.7	302.7	563	449.6	338.8	623	497.6	374.9	683	545.5	411.0
384	306.7	231.1	444	354.6	267.2	504	402.5	303.3	564	450.4	339.4	624	498.4	375.5	684	546.3	411.6
385	307.5	231.7	445	355.4	267.8	505	403.3	303.9	565	451.2	340.0	625	499.2	376.1	685	547.1	412.2
386	308.3	232.3	446	356.2	268.4	506	404.1	304.5	566	452.0	340.6	626	499.9	376.7	686	547.9	412.8
387	309.1	232.9	447	357.0	269.0	507	404.9	305.1	567	452.8	341.2	627	500.7	377.3	687	548.7	413.4
388	309.9	233.5	448	357.8	269.6	508	405.7	305.7	568	453.6	341.8	628	501.5	377.9	688	549.5	414.0
389	310.7	234.1	449	358.6	270.2	509	406.5	306.3	569	454.4	342.4	629	502.3	378.5	689	550.3	414.6
390	311.5	234.7	450	359.4	270.8	510	407.3	306.9	570	455.2	343.0	630	503.1	379.1	690	551.1	415.2
391	312.3	235.3	451	360.2	271.4	511	408.1	307.5	571	456.0	343.6	631	503.9	379.7	691	551.9	415.8
392	313.1	235.9	452	361.0	272.0	512	408.9	308.1	572	456.8	344.2	632	504.7	380.3	692	552.7	416.4
393	313.9	236.5	453	361.8	272.6	513	409.7	308.7	573	457.6	344.8	633	505.5	380.9	693	553.5	417.0
394	314.7	237.1	454	362.6	273.2	514	410.5	309.3	574	458.4	345.4	634	506.3	381.5	694	554.3	417.6
395	315.5	237.7	455	363.4	273.8	515	411.3	309.9	575	459.2	346.0	635	507.1	382.1	695	555.1	418.2
396	316.3	238.3	456	364.2	274.4	516	412.1	310.5	576	460.0	346.6	636	507.9	382.7	696	555.9	418.8
397	317.1	238.9	457	365.0	275.0	517	412.9	311.1	577	460.8	347.2	637	508.7	383.3	697	556.7	419.4
398	317.9	239.5	458	365.8	275.6	518	413.7	311.7	578	461.6	347.8	638	509.5	383.9	698	557.5	420.0
399	318.7	240.1	459	366.6	276.2	519	414.5	312.3	579	462.4	348.4	639	510.3	384.5	699	558.3	420.6
400	319.5	240.7	460	367.4	276.8	520	415.3	312.9	580	463.2	349.0	640	511.1	385.1	700	559.1	421.2
401	320.3	241.3	461	368.2	277.4	521	416.1	313.5	581	464.0	349.6	641	511.9	385.7	701	559.9	421.8
402	321.1	241.9	462	369.0	278.0	522	416.9	314.1	582	464.8	350.2	642	512.7	386.3	702	560.7	422.4
403	321.9	242.5	463	369.8	278.6	523	417.7	314.7	583	465.6	350.8	643	513.5	386.9	703	561.5	423.0
404	322.6	243.1	464	370.6	279.2	524	418.5	315.3	584	466.4	351.4	644	514.3	387.5	704	562.3	423.6
405	323.4	243.7	465	371.4	279.8	525	419.3	316.0	585	467.2	352.0	645	515.1	388.1	705	563.1	424.2
406	324.2	244.3	466	372.2	280.4	526	420.1	316.6	586	468.0	352.6	646	515.9	388.7	706	563.9	424.8
407	325.0	244.9	467	373.0	281.0	527	420.9	317.2	587	468.8	353.2	647	516.7	389.3	707	564.7	425.4
408	325.8	245.5	468	373.8	281.6	528	421.7	317.8	588	469.6	353.8	648	517.5	389.9	708	565.5	426.0
409	326.6	246.1	469	374.6	282.2	529	422.5	318.4	589	470.4	354.4	649	518.3	390.5	709	566.3	426.6
410	327.4	246.7	470	375.4	282.8	530	423.3	319.0	590	471.2	355.0	650	519.1	391.1	710	567.1	427.2
411	328.2	247.3	471	376.2	283.4	531	424.1	319.6	591	472.0	355.6	651	519.9	391.7	711	567.9	427.8
412	329.0	247.9	472	377.0	284.0	532	424.9	320.2	592	472.8	356.2	652	520.7	392.3	712	568.7	428.4
413	329.8	248.5	473	377.8	284.6	533	425.7	320.8	593	473.6	356.8	653	521.5	392.9	713	569.5	429.0
414	330.6	249.1	474	378.6	285.2	534	426.5	321.4	594	474.4	357.4	654	522.3	393.5	714	570.3	429.6
415	331.4	249.7	475	379.4	285.8	535	427.3	322.0	595	475.2	358.0	655	523.1	394.1	715	571.1	430.2
416	332.2	250.3	476	380.2	286.4	536	428.1	322.6	596	476.0	358.6	656	523.9	394.7	716	571.9	430.8
417	333.0	250.9	477	381.0	287.0	537	428.9	323.2	597	476.8	359.2	657	524.7	395.3	717	572.7	431.4
418	333.8	251.5	478	381.8	287.6	538	429.7	323.8	598	477.6	359.8	658	525.5	395.9	718	573.5	432.0
419	334.6	252.1	479	382.6	288.2	539	430.5	324.4	599	478.4	360.4	659	526.3	396.5	719	574.3	432.6
420	335.4	252.7	480	383.4	288.8	540	431.3	325.0	600	479.2	361.0	660	527.1	397.1	720	575.1	433.2

D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI
307°	53°		233°	127°													

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	0.8	0.6	61	48.1	37.6	121	95.3	74.5	181	142.6	111.4	241	189.9	148.4	301	237.2	185.3
2	1.6	1.2	62	48.9	38.2	122	96.1	75.1	182	143.4	112.1	242	190.7	149.0	302	238.0	185.9
3	2.4	1.8	63	49.6	38.8	123	96.9	75.7	183	144.2	112.7	243	191.5	149.6	303	238.8	186.5
4	3.2	2.5	64	50.4	39.4	124	97.7	76.3	184	145.0	113.3	244	192.3	150.2	304	239.6	187.2
5	3.9	3.1	65	51.2	40.0	125	98.5	77.0	185	145.8	113.9	245	193.1	150.8	305	240.3	187.8
6	4.7	3.7	66	52.0	40.6	126	99.3	77.6	186	146.6	114.5	246	193.9	151.5	306	241.1	188.4
7	5.5	4.3	67	52.8	41.2	127	100.1	78.2	187	147.4	115.1	247	194.6	152.1	307	241.9	189.0
8	6.3	4.9	68	53.6	41.9	128	100.9	78.8	188	148.1	115.7	248	195.4	152.7	308	242.7	189.6
9	7.1	5.5	69	54.4	42.5	129	101.7	79.4	189	148.9	116.4	249	196.2	153.3	309	243.5	190.2
10	7.9	6.2	70	55.2	43.1	130	102.4	80.0	190	149.7	117.0	250	197.0	153.9	310	244.3	190.9
11	8.7	6.8	71	55.9	43.7	131	103.2	80.7	191	150.5	117.6	251	197.8	154.5	311	245.1	191.5
12	9.5	7.4	72	56.7	44.3	132	104.0	81.3	192	151.3	118.2	252	198.6	155.1	312	245.9	192.1
13	10.2	8.0	73	57.5	44.9	133	104.8	81.9	193	152.1	118.8	253	199.4	155.8	313	246.6	192.7
14	11.0	8.6	74	58.3	45.6	134	105.6	82.5	194	152.9	119.4	254	200.2	156.4	314	247.4	193.3
15	11.8	9.2	75	59.1	46.2	135	106.4	83.1	195	153.7	120.1	255	200.9	157.0	315	248.2	193.9
16	12.6	9.9	76	59.9	46.8	136	107.2	83.7	196	154.5	120.7	256	201.7	157.6	316	249.0	194.5
17	13.4	10.5	77	60.7	47.4	137	108.0	84.3	197	155.2	121.3	257	202.5	158.2	317	249.8	195.2
18	14.2	11.1	78	61.5	48.0	138	108.7	85.0	198	156.0	121.9	258	203.3	158.8	318	250.6	195.8
19	15.0	11.7	79	62.3	48.6	139	109.5	85.6	199	156.8	122.5	259	204.1	159.5	319	251.4	196.4
20	15.8	12.3	80	63.0	49.3	140	110.3	86.2	200	157.6	123.1	260	204.9	160.1	320	252.2	197.0
21	16.5	12.9	81	63.8	49.9	141	111.1	86.8	201	158.4	123.7	261	205.7	160.7	321	253.0	197.6
22	17.3	13.5	82	64.6	50.5	142	111.9	87.4	202	159.2	124.4	262	206.5	161.3	322	253.7	198.2
23	18.1	14.2	83	65.4	51.1	143	112.7	88.0	203	160.0	125.0	263	207.2	161.9	323	254.5	198.9
24	18.9	14.8	84	66.2	51.7	144	113.5	88.7	204	160.8	125.6	264	208.0	162.5	324	255.3	199.5
25	19.7	15.4	85	67.0	52.3	145	114.3	89.3	205	161.5	126.2	265	208.8	163.2	325	256.1	200.1
26	20.5	16.0	86	67.8	52.9	146	115.0	89.9	206	162.3	126.8	266	209.6	163.8	326	256.9	200.7
27	21.3	16.6	87	68.6	53.6	147	115.8	90.5	207	163.1	127.4	267	210.4	164.4	327	257.7	201.3
28	22.1	17.2	88	69.3	54.2	148	116.6	91.1	208	163.9	128.1	268	211.2	165.0	328	258.5	201.9
29	22.9	17.9	89	70.1	54.8	149	117.4	91.7	209	164.7	128.7	269	212.0	165.6	329	259.3	202.6
30	23.6	18.5	90	70.9	55.4	150	118.2	92.3	210	165.5	129.3	270	212.8	166.2	330	260.0	203.2
31	24.4	19.1	91	71.7	56.0	151	119.0	93.0	211	166.3	129.9	271	213.6	166.8	331	260.8	203.8
32	25.2	19.7	92	72.5	56.6	152	119.8	93.6	212	167.1	130.5	272	214.3	167.5	332	261.6	204.4
33	26.0	20.3	93	73.3	57.3	153	120.6	94.2	213	167.8	131.1	273	215.1	168.1	333	262.4	205.0
34	26.8	20.9	94	74.1	57.9	154	121.4	94.8	214	168.6	131.8	274	215.9	168.7	334	263.2	205.6
35	27.6	21.5	95	74.9	58.5	155	122.1	95.4	215	169.4	132.4	275	216.7	169.3	335	264.0	206.2
36	28.4	22.2	96	75.6	59.1	156	122.9	96.0	216	170.2	133.0	276	217.5	169.9	336	264.8	206.9
37	29.2	22.8	97	76.4	59.7	157	123.7	96.7	217	171.0	133.6	277	218.3	170.5	337	265.6	207.5
38	29.9	23.4	98	77.2	60.3	158	124.5	97.3	218	171.8	134.2	278	219.1	171.2	338	266.3	208.1
39	30.7	24.0	99	78.0	61.0	159	125.3	97.9	219	172.6	134.8	279	219.9	171.8	339	267.1	208.7
40	31.5	24.6	100	78.8	61.6	160	126.1	98.5	220	173.4	135.4	280	220.6	172.4	340	267.9	209.3
41	32.3	25.2	101	79.6	62.2	161	126.9	99.1	221	174.2	136.1	281	221.4	173.0	341	268.7	209.9
42	33.1	25.9	102	80.4	62.8	162	127.7	99.7	222	174.9	136.7	282	222.2	173.6	342	269.5	210.6
43	33.9	26.5	103	81.2	63.4	163	128.4	100.4	223	175.7	137.3	283	223.0	174.2	343	270.3	211.2
44	34.7	27.1	104	82.0	64.0	164	129.2	101.0	224	176.5	137.9	284	223.8	174.8	344	271.1	211.8
45	35.5	27.7	105	82.7	64.6	165	130.0	101.6	225	177.3	138.5	285	224.6	175.5	345	271.9	212.4
46	36.2	28.3	106	83.5	65.3	166	130.8	102.2	226	178.1	139.1	286	225.4	176.1	346	272.7	213.0
47	37.0	28.9	107	84.3	65.9	167	131.6	102.8	227	178.9	139.8	287	226.2	176.7	347	273.4	213.6
48	37.8	29.6	108	85.1	66.5	168	132.4	103.4	228	179.7	140.4	288	226.9	177.3	348	274.2	214.3
49	38.6	30.2	109	85.9	67.1	169	133.2	104.0	229	180.5	141.0	289	227.7	177.9	349	275.0	214.9
50	39.4	30.8	110	86.7	67.7	170	134.0	104.7	230	181.2	141.6	290	228.5	178.5	350	275.8	215.5
51	40.2	31.4	111	87.5	68.3	171	134.7	105.3	231	182.0	142.2	291	229.3	179.2	351	276.6	216.1
52	41.0	32.0	112	88.3	69.0	172	135.5	105.9	232	182.8	142.8	292	230.1	179.8	352	277.4	216.7
53	41.8	32.6	113	89.0	69.6	173	136.3	106.5	233	183.6	143.4	293	230.9	180.4	353	278.2	217.3
54	42.6	33.2	114	89.8	70.2	174	137.1	107.1	234	184.4	144.1	294	231.7	181.0	354	279.0	217.9
55	43.3	33.9	115	90.6	70.8	175	137.9	107.7	235	185.2	144.7	295	232.5	181.6	355	279.7	218.6
56	44.1	34.5	116	91.4	71.4	176	138.7	108.4	236	186.0	145.3	296	233.3	182.2	356	280.5	219.2
57	44.9	35.1	117	92.2	72.0	177	139.5	109.0	237	186.8	145.9	297	234.0	182.9	357	281.3	219.8
58	45.7	35.7	118	93.0	72.6	178	140.3	109.6	238	187.5	146.5	298	234.8	183.5	358	282.1	220.4
59	46.5	36.3	119	93.8	73.3	179	141.1	110.2	239	188.3	147.1	299	235.6	184.1	359	282.9	221.0
60	47.3	36.9	120	94.6	73.9	180	141.8	110.8	240	189.1	147.8	300	236.4	184.7	360	283.7	221.6

D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI
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D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	284.5	222.3	421	331.8	259.2	481	379.0	296.1	541	426.3	333.1	601	473.6	370.0	661	520.9	407.0
362	285.3	222.9	422	332.5	259.8	482	379.8	296.7	542	427.1	333.7	602	474.4	370.6	662	521.7	407.6
363	286.0	223.5	423	333.3	260.4	483	380.6	297.4	543	427.9	334.3	603	475.2	371.2	663	522.5	408.2
364	286.8	224.1	424	334.1	261.0	484	381.4	298.0	544	428.7	334.9	604	476.0	371.9	664	523.2	408.8
365	287.6	224.7	425	334.9	261.7	485	382.2	298.6	545	429.5	335.5	605	476.7	372.5	665	524.0	409.4
366	288.4	225.3	426	335.7	262.3	486	383.0	299.2	546	430.3	336.2	606	477.5	373.1	666	524.8	410.0
367	289.2	225.9	427	336.5	262.9	487	383.8	299.8	547	431.0	336.8	607	478.3	373.7	667	525.6	410.6
368	290.0	226.6	428	337.3	263.5	488	384.5	300.4	548	431.8	337.4	608	479.1	374.3	668	526.4	411.3
369	290.8	227.2	429	338.1	264.1	489	385.3	301.1	549	432.6	338.0	609	479.9	374.9	669	527.2	411.9
370	291.6	227.8	430	338.8	264.7	490	386.1	301.7	550	433.4	338.6	610	480.7	375.6	670	528.0	412.5
371	292.4	228.4	431	339.6	265.3	491	386.9	302.3	551	434.2	339.2	611	481.5	376.2	671	528.8	413.1
372	293.1	229.0	432	340.4	266.0	492	387.7	302.9	552	435.0	339.8	612	482.3	376.8	672	529.5	413.7
373	293.9	229.6	433	341.2	266.6	493	388.5	303.5	553	435.8	340.5	613	483.1	377.4	673	530.3	414.3
374	294.7	230.3	434	342.0	267.2	494	389.3	304.1	554	436.6	341.1	614	483.8	378.0	674	531.1	415.0
375	295.5	230.9	435	342.8	267.8	495	390.1	304.8	555	437.3	341.7	615	484.6	378.6	675	531.9	415.6
376	296.3	231.5	436	343.6	268.4	496	390.9	305.4	556	438.1	342.3	616	485.4	379.2	676	532.7	416.2
377	297.1	232.1	437	344.4	269.0	497	391.6	306.0	557	438.9	342.9	617	486.2	379.9	677	533.5	416.8
378	297.9	232.7	438	345.1	269.7	498	392.4	306.6	558	439.7	343.5	618	487.0	380.5	678	534.3	417.4
379	298.7	233.3	439	345.9	270.3	499	393.2	307.2	559	440.5	344.2	619	487.8	381.1	679	535.1	418.0
380	299.4	234.0	440	346.7	270.9	500	394.0	307.8	560	441.3	344.8	620	488.6	381.7	680	535.8	418.6
381	300.2	234.6	441	347.5	271.5	501	394.8	308.4	561	442.1	345.4	621	489.4	382.3	681	536.6	419.3
382	301.0	235.2	442	348.3	272.1	502	395.6	309.1	562	442.9	346.0	622	490.1	382.9	682	537.4	419.9
383	301.8	235.8	443	349.1	272.7	503	396.4	309.7	563	443.7	346.6	623	490.9	383.6	683	538.2	420.5
384	302.6	236.4	444	349.9	273.4	504	397.2	310.3	564	444.4	347.2	624	491.7	384.2	684	539.0	421.1
385	303.4	237.0	445	350.7	274.0	505	397.9	310.9	565	445.2	347.8	625	492.5	384.8	685	539.8	421.7
386	304.2	237.6	446	351.5	274.6	506	398.7	311.5	566	446.0	348.5	626	493.3	385.4	686	540.6	422.3
387	305.0	238.3	447	352.2	275.2	507	399.5	312.1	567	446.8	349.1	627	494.1	386.0	687	541.4	423.0
388	305.7	238.9	448	353.0	275.8	508	400.3	312.8	568	447.6	349.7	628	494.9	386.6	688	542.2	423.6
389	306.5	239.5	449	353.8	276.4	509	401.1	313.4	569	448.4	350.3	629	495.7	387.3	689	542.9	424.2
390	307.3	240.1	450	354.6	277.0	510	401.9	314.0	570	449.2	350.9	630	496.4	387.9	690	543.7	424.8
391	308.1	240.7	451	355.4	277.7	511	402.7	314.6	571	450.0	351.5	631	497.2	388.5	691	544.5	425.4
392	308.9	241.3	452	356.2	278.3	512	403.5	315.2	572	450.7	352.2	632	498.0	389.1	692	545.3	426.0
393	309.7	242.0	453	357.0	278.9	513	404.2	315.8	573	451.5	352.8	633	498.8	389.7	693	546.1	426.7
394	310.5	242.6	454	357.8	279.5	514	405.0	316.4	574	452.3	353.4	634	499.6	390.3	694	546.9	427.3
395	311.3	243.2	455	358.5	280.1	515	405.8	317.1	575	453.1	354.0	635	500.4	390.9	695	547.7	427.9
396	312.1	243.8	456	359.3	280.7	516	406.6	317.7	576	453.9	354.6	636	501.2	391.6	696	548.5	428.5
397	312.8	244.4	457	360.1	281.4	517	407.4	318.3	577	454.7	355.2	637	502.0	392.2	697	549.2	429.1
398	313.6	245.0	458	360.9	282.0	518	408.2	318.9	578	455.5	355.9	638	502.8	392.8	698	550.0	429.7
399	314.4	245.6	459	361.7	282.6	519	409.0	319.5	579	456.3	356.5	639	503.5	393.4	699	550.8	430.3
400	315.2	246.3	460	362.5	283.2	520	409.8	320.1	580	457.0	357.1	640	504.3	394.0	700	551.6	431.0
401	316.0	246.9	461	363.3	283.8	521	410.6	320.8	581	457.8	357.7	641	505.1	394.6	701	552.4	431.6
402	316.8	247.5	462	364.1	284.4	522	411.3	321.4	582	458.6	358.3	642	505.9	395.3	702	553.2	432.2
403	317.6	248.1	463	364.8	285.1	523	412.1	322.0	583	459.4	358.9	643	506.7	395.9	703	554.0	432.8
404	318.4	248.7	464	365.6	285.7	524	412.9	322.6	584	460.2	359.5	644	507.5	396.5	704	554.8	433.4
405	319.1	249.3	465	366.4	286.3	525	413.7	323.2	585	461.0	360.2	645	508.3	397.1	705	555.5	434.0
406	319.9	250.0	466	367.2	286.9	526	414.5	323.8	586	461.8	360.8	646	509.1	397.7	706	556.3	434.7
407	320.7	250.6	467	368.0	287.5	527	415.3	324.5	587	462.6	361.4	647	509.8	398.3	707	557.1	435.3
408	321.5	251.2	468	368.8	288.1	528	416.1	325.1	588	463.4	362.0	648	510.6	398.9	708	557.9	435.9
409	322.3	251.8	469	369.6	288.7	529	416.9	325.7	589	464.1	362.6	649	511.4	399.6	709	558.7	436.5
410	323.1	252.4	470	370.4	289.4	530	417.6	326.3	590	464.9	363.2	650	512.2	400.2	710	559.5	437.1
411	323.9	253.0	471	371.2	290.0	531	418.4	326.9	591	465.7	363.9	651	513.0	400.8	711	560.3	437.7
412	324.7	253.7	472	371.9	290.6	532	419.2	327.5	592	466.5	364.5	652	513.8	401.4	712	561.1	438.4
413	325.4	254.3	473	372.7	291.2	533	420.0	328.1	593	467.3	365.1	653	514.6	402.0	713	561.9	439.0
414	326.2	254.9	474	373.5	291.8	534	420.8	328.8	594	468.1	365.7	654	515.4	402.6	714	562.6	439.6
415	327.0	255.5	475	374.3	292.4	535	421.6	329.4	595	468.9	366.3	655	516.1	403.3	715	563.4	440.2
416	327.8	256.1	476	375.1	293.1	536	422.4	330.0	596	469.7	366.9	656	516.9	403.9	716	564.2	440.8
417	328.6	256.7	477	375.9	293.7	537	423.2	330.6	597	470.4	367.5	657	517.7	404.5	717	565.0	441.4
418	329.4	257.3	478	376.7	294.3	538	423.9	331.2	598	471.2	368.2	658	518.5	405.1	718	565.8	442.0
419	330.2	258.0	479	377.5	294.9	539	424.7	331.8	599	472.0	368.8	659	519.3	405.7	719	566.6	442.7
420	331.0	258.6	480	378.2	295.5	540	425.5	332.5	600	472.8	369.4	660	520.1	406.3	720	567.4	443.3

D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	0.8	0.6	61	47.4	38.4	121	94.0	76.1	181	140.7	113.9	241	187.3	151.7	301	233.9	189.4
2	1.6	1.3	62	48.2	39.0	122	94.8	76.8	182	141.4	114.5	242	188.1	152.3	302	234.7	190.1
3	2.3	1.9	63	49.0	39.6	123	95.6	77.4	183	142.2	115.2	243	188.8	152.9	303	235.5	190.7
4	3.1	2.5	64	49.7	40.3	124	96.4	78.0	184	143.0	115.8	244	189.6	153.6	304	236.3	191.3
5	3.9	3.1	65	50.5	40.9	125	97.1	78.7	185	143.8	116.4	245	190.4	154.2	305	237.0	191.9
6	4.7	3.8	66	51.3	41.5	126	97.9	79.3	186	144.5	117.1	246	191.2	154.8	306	237.8	192.6
7	5.4	4.4	67	52.1	42.2	127	98.7	79.9	187	145.3	117.7	247	192.0	155.4	307	238.6	193.2
8	6.2	5.0	68	52.8	42.8	128	99.5	80.6	188	146.1	118.3	248	192.7	156.1	308	239.4	193.8
9	7.0	5.7	69	53.6	43.4	129	100.3	81.2	189	146.9	118.9	249	193.5	156.7	309	240.1	194.5
10	7.8	6.3	70	54.4	44.1	130	101.0	81.8	190	147.7	119.6	250	194.3	157.3	310	240.9	195.1
11	8.5	6.9	71	55.2	44.7	131	101.8	82.4	191	148.4	120.2	251	195.1	158.0	311	241.7	195.7
12	9.3	7.6	72	56.0	45.3	132	102.6	83.1	192	149.2	120.8	252	195.8	158.6	312	242.5	196.3
13	10.1	8.2	73	56.7	45.9	133	103.4	83.7	193	150.0	121.5	253	196.6	159.2	313	243.2	197.0
14	10.9	8.8	74	57.5	46.6	134	104.1	84.3	194	150.8	122.1	254	197.4	159.8	314	244.0	197.6
15	11.7	9.4	75	58.3	47.2	135	104.9	85.0	195	151.5	122.7	255	198.2	160.5	315	244.8	198.2
16	12.4	10.1	76	59.1	47.8	136	105.7	85.6	196	152.3	123.3	256	198.9	161.1	316	245.6	198.9
17	13.2	10.7	77	59.8	48.5	137	106.5	86.2	197	153.1	124.0	257	199.7	161.7	317	246.4	199.5
18	14.0	11.3	78	60.6	49.1	138	107.2	86.8	198	153.9	124.6	258	200.5	162.4	318	247.1	200.1
19	14.8	12.0	79	61.4	49.7	139	108.0	87.5	199	154.7	125.2	259	201.3	163.0	319	247.9	200.8
20	15.5	12.6	80	62.2	50.3	140	108.8	88.1	200	155.4	125.9	260	202.1	163.6	320	248.7	201.4
21	16.3	13.2	81	62.9	51.0	141	109.6	88.7	201	156.2	126.5	261	202.8	164.3	321	249.5	202.0
22	17.1	13.8	82	63.7	51.6	142	110.4	89.4	202	157.0	127.1	262	203.6	164.9	322	250.2	202.6
23	17.9	14.5	83	64.5	52.2	143	111.1	90.0	203	157.8	127.8	263	204.4	165.5	323	251.0	203.3
24	18.7	15.1	84	65.3	52.9	144	111.9	90.6	204	158.5	128.4	264	205.2	166.1	324	251.8	203.9
25	19.4	15.7	85	66.1	53.5	145	112.7	91.3	205	159.3	129.0	265	205.9	166.8	325	252.6	204.5
26	20.2	16.4	86	66.8	54.1	146	113.5	91.9	206	160.1	129.6	266	206.7	167.4	326	253.3	205.2
27	21.0	17.0	87	67.6	54.8	147	114.2	92.5	207	160.9	130.3	267	207.5	168.0	327	254.1	205.8
28	21.8	17.6	88	68.4	55.4	148	115.0	93.1	208	161.6	130.9	268	208.3	168.7	328	254.9	206.4
29	22.5	18.3	89	69.2	56.0	149	115.8	93.8	209	162.4	131.5	269	209.1	169.3	329	255.7	207.0
30	23.3	18.9	90	69.9	56.6	150	116.6	94.4	210	163.2	132.2	270	209.8	169.9	330	256.5	207.7
31	24.1	19.5	91	70.7	57.3	151	117.3	95.0	211	164.0	132.8	271	210.6	170.5	331	257.2	208.3
32	24.9	20.1	92	71.5	57.9	152	118.1	95.7	212	164.8	133.4	272	211.4	171.2	332	258.0	208.9
33	25.6	20.8	93	72.3	58.5	153	118.9	96.3	213	165.5	134.0	273	212.2	171.8	333	258.8	209.6
34	26.4	21.4	94	73.1	59.2	154	119.7	96.9	214	166.3	134.7	274	212.9	172.4	334	259.6	210.2
35	27.2	22.0	95	73.8	59.8	155	120.5	97.5	215	167.1	135.3	275	213.7	173.1	335	260.3	210.8
36	28.0	22.7	96	74.6	60.4	156	121.2	98.2	216	167.9	135.9	276	214.5	173.7	336	261.1	211.5
37	28.8	23.3	97	75.4	61.0	157	122.0	98.8	217	168.6	136.6	277	215.3	174.3	337	261.9	212.1
38	29.5	23.9	98	76.2	61.7	158	122.8	99.4	218	169.4	137.2	278	216.0	175.0	338	262.7	212.7
39	30.3	24.5	99	76.9	62.3	159	123.6	100.1	219	170.2	137.8	279	216.8	175.6	339	263.5	213.3
40	31.1	25.2	100	77.7	62.9	160	124.3	100.7	220	171.0	138.5	280	217.6	176.2	340	264.2	214.0
41	31.9	25.8	101	78.5	63.6	161	125.1	101.3	221	171.7	139.1	281	218.4	176.8	341	265.0	214.6
42	32.6	26.4	102	79.3	64.2	162	125.9	101.9	222	172.5	139.7	282	219.2	177.5	342	265.8	215.2
43	33.4	27.1	103	80.0	64.8	163	126.7	102.6	223	173.3	140.3	283	219.9	178.1	343	266.6	215.9
44	34.2	27.7	104	80.8	65.4	164	127.5	103.2	224	174.1	141.0	284	220.7	178.7	344	267.3	216.5
45	35.0	28.3	105	81.6	66.1	165	128.2	103.8	225	174.9	141.6	285	221.5	179.4	345	268.1	217.1
46	35.7	28.9	106	82.4	66.7	166	129.0	104.5	226	175.6	142.2	286	222.3	180.0	346	268.9	217.7
47	36.5	29.6	107	83.2	67.3	167	129.8	105.1	227	176.4	142.9	287	223.0	180.6	347	269.7	218.4
48	37.3	30.2	108	83.9	68.0	168	130.6	105.7	228	177.2	143.5	288	223.8	181.2	348	270.4	219.0
49	38.1	30.8	109	84.7	68.6	169	131.3	106.4	229	178.0	144.1	289	224.6	181.9	349	271.2	219.6
50	38.9	31.5	110	85.5	69.2	170	132.1	107.0	230	178.7	144.7	290	225.4	182.5	350	272.0	220.3
51	39.6	32.1	111	86.3	69.9	171	132.9	107.6	231	179.5	145.4	291	226.1	183.1	351	272.8	220.9
52	40.4	32.7	112	87.0	70.5	172	133.7	108.2	232	180.3	146.0	292	226.9	183.8	352	273.6	221.5
53	41.2	33.4	113	87.8	71.1	173	134.4	108.9	233	181.1	146.6	293	227.7	184.4	353	274.3	222.1
54	42.0	34.0	114	88.6	71.7	174	135.2	109.5	234	181.9	147.3	294	228.5	185.0	354	275.1	222.8
55	42.7	34.6	115	89.4	72.4	175	136.0	110.1	235	182.6	147.9	295	229.3	185.6	355	275.9	223.4
56	43.5	35.2	116	90.1	73.0	176	136.8	110.8	236	183.4	148.5	296	230.0	186.3	356	276.7	224.0
57	44.3	35.9	117	90.9	73.6	177	137.6	111.4	237	184.2	149.1	297	230.8	186.9	357	277.4	224.7
58	45.1	36.5	118	91.7	74.3	178	138.3	112.0	238	185.0	149.8	298	231.6	187.5	358	278.2	225.3
59	45.9	37.1	119	92.5	74.9	179	139.1	112.6	239	185.7	150.4	299	232.4	188.2	359	279.0	225.9
60	46.6	37.8	120	93.3	75.5	180	139.9	113.3	240	186.5	151.0	300	233.1	188.8	360	279.8	226.6
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	280.5	227.2	421	327.2	264.9	481	373.8	302.7	541	420.4	340.5	601	467.1	378.2	661	513.7	416.0
362	281.3	227.8	422	328.0	265.6	482	374.6	303.3	542	421.2	341.1	602	467.8	378.9	662	514.5	416.6
363	282.1	228.4	423	328.7	266.2	483	375.4	304.0	543	422.0	341.7	603	468.6	379.5	663	515.2	417.2
364	282.9	229.1	424	329.5	266.8	484	376.1	304.6	544	422.8	342.4	604	469.4	380.1	664	516.0	417.9
365	283.7	229.7	425	330.3	267.5	485	376.9	305.2	545	423.5	343.0	605	470.2	380.7	665	516.8	418.5
366	284.4	230.3	426	331.1	268.1	486	377.7	305.8	546	424.3	343.6	606	471.0	381.4	666	517.6	419.1
367	285.2	231.0	427	331.8	268.7	487	378.5	306.5	547	425.1	344.2	607	471.7	382.0	667	518.4	419.8
368	286.0	231.6	428	332.6	269.3	488	379.2	307.1	548	425.9	344.9	608	472.5	382.6	668	519.1	420.4
369	286.8	232.2	429	333.4	270.0	489	380.0	307.7	549	426.7	345.5	609	473.3	383.3	669	519.9	421.0
370	287.5	232.8	430	334.2	270.6	490	380.8	308.4	550	427.4	346.1	610	474.1	383.9	670	520.7	421.6
371	288.3	233.5	431	334.9	271.2	491	381.6	309.0	551	428.2	346.8	611	474.8	384.5	671	521.5	422.3
372	289.1	234.1	432	335.7	271.9	492	382.4	309.6	552	429.0	347.4	612	475.6	385.1	672	522.2	422.9
373	289.9	234.7	433	336.5	272.5	493	383.1	310.3	553	429.8	348.0	613	476.4	385.8	673	523.0	423.5
374	290.7	235.4	434	337.3	273.1	494	383.9	310.9	554	430.5	348.6	614	477.2	386.4	674	523.8	424.2
375	291.4	236.0	435	338.1	273.8	495	384.7	311.5	555	431.3	349.3	615	477.9	387.0	675	524.6	424.8
376	292.2	236.6	436	338.8	274.4	496	385.5	312.1	556	432.1	349.9	616	478.7	387.7	676	525.4	425.4
377	293.0	237.3	437	339.6	275.0	497	386.2	312.8	557	432.9	350.5	617	479.5	388.3	677	526.1	426.0
378	293.8	237.9	438	340.4	275.6	498	387.0	313.4	558	433.6	351.2	618	480.3	388.9	678	526.9	426.7
379	294.5	238.5	439	341.2	276.3	499	387.8	314.0	559	434.4	351.8	619	481.1	389.5	679	527.7	427.3
380	295.3	239.1	440	341.9	276.9	500	388.6	314.7	560	435.2	352.4	620	481.8	390.2	680	528.5	427.9
381	296.1	239.8	441	342.7	277.5	501	389.4	315.3	561	436.0	353.0	621	482.6	390.8	681	529.2	428.6
382	296.9	240.4	442	343.5	278.2	502	390.1	315.9	562	436.8	353.7	622	483.4	391.4	682	530.0	429.2
383	297.6	241.0	443	344.3	278.8	503	390.9	316.5	563	437.5	354.3	623	484.2	392.1	683	530.8	429.8
384	298.4	241.7	444	345.1	279.4	504	391.7	317.2	564	438.3	354.9	624	484.9	392.7	684	531.6	430.5
385	299.2	242.3	445	345.8	280.0	505	392.5	317.8	565	439.1	355.6	625	485.7	393.3	685	532.3	431.1
386	300.0	242.9	446	346.6	280.7	506	393.2	318.4	566	439.9	356.2	626	486.5	394.0	686	533.1	431.7
387	300.8	243.5	447	347.4	281.3	507	394.0	319.1	567	440.6	356.8	627	487.3	394.6	687	533.9	432.3
388	301.5	244.2	448	348.2	281.9	508	394.8	319.7	568	441.4	357.5	628	488.0	395.2	688	534.7	433.0
389	302.3	244.8	449	348.9	282.6	509	395.6	320.3	569	442.2	358.1	629	488.8	395.8	689	535.5	433.6
390	303.1	245.4	450	349.7	283.2	510	396.3	321.0	570	443.0	358.7	630	489.6	396.5	690	536.2	434.2
391	303.9	246.1	451	350.5	283.8	511	397.1	321.6	571	443.8	359.3	631	490.4	397.1	691	537.0	434.9
392	304.6	246.7	452	351.3	284.5	512	397.9	322.2	572	444.5	360.0	632	491.2	397.7	692	537.8	435.5
393	305.4	247.3	453	352.0	285.1	513	398.7	322.8	573	445.3	360.6	633	491.9	398.4	693	538.6	436.1
394	306.2	248.0	454	352.8	285.7	514	399.5	323.5	574	446.1	361.2	634	492.7	399.0	694	539.3	436.7
395	307.0	248.6	455	353.6	286.3	515	400.2	324.1	575	446.9	361.9	635	493.5	399.6	695	540.1	437.4
396	307.7	249.2	456	354.4	287.0	516	401.0	324.7	576	447.7	362.5	636	494.3	400.2	696	540.9	438.0
397	308.5	249.8	457	355.2	287.6	517	401.8	325.4	577	448.4	363.1	637	495.0	400.9	697	541.7	438.6
398	309.3	250.5	458	355.9	288.2	518	402.6	326.0	578	449.2	363.7	638	495.8	401.5	698	542.4	439.3
399	310.1	251.1	459	356.7	288.9	519	403.3	326.6	579	450.0	364.4	639	496.6	402.1	699	543.2	439.9
400	310.9	251.7	460	357.5	289.5	520	404.1	327.2	580	450.7	365.0	640	497.4	402.8	700	544.0	440.5
401	311.6	252.4	461	358.3	290.1	521	404.9	327.9	581	451.5	365.6	641	498.2	403.4	701	544.8	441.2
402	312.4	253.0	462	359.0	290.7	522	405.7	328.5	582	452.3	366.3	642	498.9	404.0	702	545.6	441.8
403	313.2	253.6	463	359.8	291.4	523	406.4	329.1	583	453.1	366.9	643	499.7	404.7	703	546.3	442.4
404	314.0	254.2	464	360.6	292.0	524	407.2	329.8	584	453.9	367.5	644	500.5	405.3	704	547.1	443.0
405	314.7	254.9	465	361.4	292.6	525	408.0	330.4	585	454.6	368.2	645	501.3	405.9	705	547.9	443.7
406	315.5	255.5	466	362.2	293.3	526	408.8	331.0	586	455.4	368.8	646	502.0	406.5	706	548.7	444.3
407	316.3	256.1	467	362.9	293.9	527	409.6	331.7	587	456.2	369.4	647	502.8	407.2	707	549.4	444.9
408	317.1	256.8	468	363.7	294.5	528	410.3	332.3	588	457.0	370.0	648	503.6	407.8	708	550.2	445.6
409	317.9	257.4	469	364.5	295.2	529	411.1	332.9	589	457.7	370.7	649	504.4	408.4	709	551.0	446.2
410	318.6	258.0	470	365.3	295.8	530	411.9	333.5	590	458.5	371.3	650	505.1	409.1	710	551.8	446.8
411	319.4	258.7	471	366.0	296.4	531	412.7	334.2	591	459.3	371.9	651	505.9	409.7	711	552.6	447.4
412	320.2	259.3	472	366.8	297.0	532	413.4	334.8	592	460.1	372.6	652	506.7	410.3	712	553.3	448.1
413	321.0	259.9	473	367.6	297.7	533	414.2	335.4	593	460.8	373.2	653	507.5	410.9	713	554.1	448.7
414	321.7	260.5	474	368.4	298.3	534	415.0	336.1	594	461.6	373.8	654	508.3	411.6	714	554.9	449.3
415	322.5	261.2	475	369.1	298.9	535	415.8	336.7	595	462.4	374.4	655	509.0	412.2	715	555.7	450.0
416	323.3	261.8	476	369.9	299.6	536	416.6	337.3	596	463.2	375.1	656	509.8	412.8	716	556.4	450.6
417	324.1	262.4	477	370.7	300.2	537	417.3	337.9	597	464.0	375.7	657	510.6	413.5	717	557.2	451.2
418	324.8	263.1	478	371.5	300.8	538	418.1	338.6	598	464.7	376.3	658	511.4	414.1	718	558.0	451.9
419	325.6	263.7	479	372.3	301.4	539	418.9	339.2	599	465.5	377.0	659	512.1	414.7	719	558.8	452.5
420	326.4	264.3	480	373.0	302.1	540	419.7	339.8	600	466.3	377.6	660	512.9	415.4	720	559.5	453.1

Taboa XI

r=0.78

40°

320°	40°
220°	140°

Table XI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	0.8	0.6	61	46.7	39.2	121	92.7	77.8	181	138.7	116.3	241	184.6	154.9	301	230.6	193.5
2	1.5	1.3	62	47.5	39.9	122	93.5	78.4	182	139.4	117.0	242	185.4	155.6	302	231.3	194.1
3	2.3	1.9	63	48.3	40.5	123	94.2	79.1	183	140.2	117.6	243	186.1	156.2	303	232.1	194.8
4	3.1	2.6	64	49.0	41.1	124	95.0	79.7	184	141.0	118.3	244	186.9	156.8	304	232.9	195.4
5	3.8	3.2	65	49.8	41.8	125	95.8	80.3	185	141.7	118.9	245	187.7	157.5	305	233.6	196.1
6	4.6	3.9	66	50.6	42.4	126	96.5	81.0	186	142.5	119.6	246	188.4	158.1	306	234.4	196.7
7	5.4	4.5	67	51.3	43.1	127	97.3	81.6	187	143.3	120.2	247	189.2	158.8	307	235.2	197.3
8	6.1	5.1	68	52.1	43.7	128	98.1	82.3	188	144.0	120.8	248	190.0	159.4	308	235.9	198.0
9	6.9	5.8	69	52.9	44.4	129	98.8	82.9	189	144.8	121.5	249	190.7	160.1	309	236.7	198.6
10	7.7	6.4	70	53.6	45.0	130	99.6	83.6	190	145.5	122.1	250	191.5	160.7	310	237.5	199.3
11	8.4	7.1	71	54.4	45.6	131	100.4	84.2	191	146.3	122.8	251	192.3	161.3	311	238.2	199.9
12	9.2	7.7	72	55.2	46.3	132	101.1	84.8	192	147.1	123.4	252	193.0	162.0	312	239.0	200.5
13	10.0	8.4	73	55.9	46.9	133	101.9	85.5	193	147.8	124.1	253	193.8	162.6	313	239.8	201.2
14	10.7	9.0	74	56.7	47.6	134	102.6	86.1	194	148.6	124.7	254	194.6	163.3	314	240.5	201.8
15	11.5	9.6	75	57.5	48.2	135	103.4	86.8	195	149.4	125.3	255	195.3	163.9	315	241.3	202.5
16	12.3	10.3	76	58.2	48.9	136	104.2	87.4	196	150.1	126.0	256	196.1	164.6	316	242.1	203.1
17	13.0	10.9	77	59.0	49.5	137	104.9	88.1	197	150.9	126.6	257	196.9	165.2	317	242.8	203.8
18	13.8	11.6	78	59.8	50.1	138	105.7	88.7	198	151.7	127.3	258	197.6	165.8	318	243.6	204.4
19	14.6	12.2	79	60.5	50.8	139	106.5	89.3	199	152.4	127.9	259	198.4	166.5	319	244.4	205.0
20	15.3	12.9	80	61.3	51.4	140	107.2	90.0	200	153.2	128.6	260	199.2	167.1	320	245.1	205.7
21	16.1	13.5	81	62.0	52.1	141	108.0	90.6	201	154.0	129.2	261	199.9	167.8	321	245.9	206.3
22	16.9	14.1	82	62.8	52.7	142	108.8	91.3	202	154.7	129.8	262	200.7	168.4	322	246.7	207.0
23	17.6	14.8	83	63.6	53.4	143	109.5	91.9	203	155.5	130.5	263	201.5	169.1	323	247.4	207.6
24	18.4	15.4	84	64.3	54.0	144	110.3	92.6	204	156.3	131.1	264	202.2	169.7	324	248.2	208.3
25	19.2	16.1	85	65.1	54.6	145	111.1	93.2	205	157.0	131.8	265	203.0	170.3	325	249.0	208.9
26	19.9	16.7	86	65.9	55.3	146	111.8	93.8	206	157.8	132.4	266	203.8	171.0	326	249.7	209.5
27	20.7	17.4	87	66.6	55.9	147	112.6	94.5	207	158.6	133.1	267	204.5	171.6	327	250.5	210.2
28	21.4	18.0	88	67.4	56.6	148	113.4	95.1	208	159.3	133.7	268	205.3	172.3	328	251.3	210.8
29	22.2	18.6	89	68.2	57.2	149	114.1	95.8	209	160.1	134.3	269	206.1	172.9	329	252.0	211.5
30	23.0	19.3	90	68.9	57.9	150	114.9	96.4	210	160.9	135.0	270	206.8	173.6	330	252.8	212.1
31	23.7	19.9	91	69.7	58.5	151	115.7	97.1	211	161.6	135.6	271	207.6	174.2	331	253.6	212.8
32	24.5	20.6	92	70.5	59.1	152	116.4	97.7	212	162.4	136.3	272	208.4	174.8	332	254.3	213.4
33	25.3	21.2	93	71.2	59.8	153	117.2	98.3	213	163.2	136.9	273	209.1	175.5	333	255.1	214.0
34	26.0	21.9	94	72.0	60.4	154	118.0	99.0	214	163.9	137.6	274	209.9	176.1	334	255.9	214.7
35	26.8	22.5	95	72.8	61.1	155	118.7	99.6	215	164.7	138.2	275	210.7	176.8	335	256.6	215.3
36	27.6	23.1	96	73.5	61.7	156	119.5	100.3	216	165.5	138.8	276	211.4	177.4	336	257.4	216.0
37	28.3	23.8	97	74.3	62.4	157	120.3	100.9	217	166.2	139.5	277	212.2	178.1	337	258.2	216.6
38	29.1	24.4	98	75.1	63.0	158	121.0	101.6	218	167.0	140.1	278	213.0	178.7	338	258.9	217.3
39	29.9	25.1	99	75.8	63.6	159	121.8	102.2	219	167.8	140.8	279	213.7	179.3	339	259.7	217.9
40	30.6	25.7	100	76.6	64.3	160	122.6	102.8	220	168.5	141.4	280	214.5	180.0	340	260.5	218.5
41	31.4	26.4	101	77.4	64.9	161	123.3	103.5	221	169.3	142.1	281	215.3	180.6	341	261.2	219.2
42	32.2	27.0	102	78.1	65.6	162	124.1	104.1	222	170.1	142.7	282	216.0	181.3	342	262.0	219.8
43	32.9	27.6	103	78.9	66.2	163	124.9	104.8	223	170.8	143.3	283	216.8	181.9	343	262.8	220.5
44	33.7	28.3	104	79.7	66.8	164	125.6	105.4	224	171.6	144.0	284	217.6	182.6	344	263.5	221.1
45	34.5	28.9	105	80.4	67.5	165	126.4	106.1	225	172.4	144.6	285	218.3	183.2	345	264.3	221.8
46	35.2	29.6	106	81.2	68.1	166	127.2	106.7	226	173.1	145.3	286	219.1	183.8	346	265.1	222.4
47	36.0	30.2	107	82.0	68.8	167	127.9	107.3	227	173.9	145.9	287	219.9	184.5	347	265.8	223.0
48	36.8	30.9	108	82.7	69.4	168	128.7	108.0	228	174.7	146.6	288	220.6	185.1	348	266.6	223.7
49	37.5	31.5	109	83.5	70.1	169	129.5	108.6	229	175.4	147.2	289	221.4	185.8	349	267.3	224.3
50	38.3	32.1	110	84.3	70.7	170	130.2	109.3	230	176.2	147.8	290	222.2	186.4	350	268.1	225.0
51	39.1	32.8	111	85.0	71.3	171	131.0	109.9	231	177.0	148.5	291	222.9	187.1	351	268.9	225.6
52	39.8	33.4	112	85.8	72.0	172	131.8	110.6	232	177.7	149.1	292	223.7	187.7	352	269.6	226.3
53	40.6	34.1	113	86.6	72.6	173	132.5	111.2	233	178.5	149.8	293	224.5	188.3	353	270.4	226.9
54	41.4	34.7	114	87.3	73.3	174	133.3	111.8	234	179.3	150.4	294	225.2	189.0	354	271.2	227.5
55	42.1	35.4	115	88.1	73.9	175	134.1	112.5	235	180.0	151.1	295	226.0	189.6	355	271.9	228.2
56	42.9	36.0	116	88.9	74.6	176	134.8	113.1	236	180.8	151.7	296	226.7	190.3	356	272.7	228.8
57	43.7	36.6	117	89.6	75.2	177	135.6	113.8	237	181.6	152.3	297	227.5	190.9	357	273.5	229.5
58	44.4	37.3	118	90.4	75.8	178	136.4	114.4	238	182.3	153.0	298	228.3	191.6	358	274.2	230.1
59	45.2	37.9	119	91.2	76.5	179	137.1	115.1	239	183.1	153.6	299	229.0	192.2	359	275.0	230.8
60	46.0	38.6	120	91.9	77.1	180	137.9	115.7	240	183.9	154.3	300	229.8	192.8	360	275.8	231.4
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

r=0.65

50°

310°	50°
230°	130°

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	276.5	232.0	421	322.5	270.6	481	368.5	309.2	541	414.4	347.7	601	460.4	386.3	661	506.4	424.9
362	277.3	232.7	422	323.3	271.3	482	369.2	309.8	542	415.2	348.4	602	461.2	387.0	662	507.1	425.5
363	278.1	233.3	423	324.0	271.9	483	370.0	310.5	543	416.0	349.0	603	461.9	387.6	663	507.9	426.2
364	278.8	234.0	424	324.8	272.5	484	370.8	311.1	544	416.7	349.7	604	462.7	388.2	664	508.7	426.8
365	279.6	234.6	425	325.6	273.2	485	371.5	311.8	545	417.5	350.3	605	463.5	388.9	665	509.4	427.5
366	280.4	235.3	426	326.3	273.8	486	372.3	312.4	546	418.3	351.0	606	464.2	389.5	666	510.2	428.1
367	281.1	235.9	427	327.1	274.5	487	373.1	313.0	547	419.0	351.6	607	465.0	390.2	667	511.0	428.7
368	281.9	236.5	428	327.9	275.1	488	373.8	313.7	548	419.8	352.2	608	465.8	390.8	668	511.7	429.4
369	282.7	237.2	429	328.6	275.8	489	374.6	314.3	549	420.6	352.9	609	466.5	391.5	669	512.5	430.0
370	283.4	237.8	430	329.4	276.4	490	375.4	315.0	550	421.3	353.5	610	467.3	392.1	670	513.2	430.7
371	284.2	238.5	431	330.2	277.0	491	376.1	315.6	551	422.1	354.2	611	468.1	392.7	671	514.0	431.3
372	285.0	239.1	432	330.9	277.7	492	376.9	316.3	552	422.9	354.8	612	468.8	393.4	672	514.8	432.0
373	285.7	239.8	433	331.7	278.3	493	377.7	316.9	553	423.6	355.5	613	469.6	394.0	673	515.5	432.6
374	286.5	240.4	434	332.5	279.0	494	378.4	317.5	554	424.4	356.1	614	470.4	394.7	674	516.3	433.2
375	287.3	241.0	435	333.2	279.6	495	379.2	318.2	555	425.2	356.7	615	471.1	395.3	675	517.1	433.9
376	288.0	241.7	436	334.0	280.3	496	380.0	318.8	556	425.9	357.4	616	471.9	396.0	676	517.8	434.5
377	288.8	242.3	437	334.8	280.9	497	380.7	319.5	557	426.7	358.0	617	472.6	396.6	677	518.6	435.2
378	289.6	243.0	438	335.5	281.5	498	381.5	320.1	558	427.5	358.7	618	473.4	397.2	678	519.4	435.8
379	290.3	243.6	439	336.3	282.2	499	382.3	320.8	559	428.2	359.3	619	474.2	397.9	679	520.1	436.5
380	291.1	244.3	440	337.1	282.8	500	383.0	321.4	560	429.0	360.0	620	474.9	398.5	680	520.9	437.1
381	291.9	244.9	441	337.8	283.5	501	383.8	322.0	561	429.8	360.6	621	475.7	399.2	681	521.7	437.7
382	292.6	245.5	442	338.6	284.1	502	384.6	322.7	562	430.5	361.2	622	476.5	399.8	682	522.4	438.4
383	293.4	246.2	443	339.4	284.8	503	385.3	323.3	563	431.3	361.9	623	477.2	400.5	683	523.2	439.0
384	294.2	246.8	444	340.1	285.4	504	386.1	324.0	564	432.0	362.5	624	478.0	401.1	684	524.0	439.7
385	294.9	247.4	445	340.9	286.0	505	386.9	324.6	565	432.8	363.2	625	478.8	401.7	685	524.7	440.3
386	295.7	248.1	446	341.7	286.7	506	387.6	325.3	566	433.6	363.8	626	479.5	402.4	686	525.5	441.0
387	296.5	248.8	447	342.4	287.3	507	388.4	325.9	567	434.3	364.5	627	480.3	403.0	687	526.3	441.6
388	297.2	249.4	448	343.2	288.0	508	389.2	326.5	568	435.1	365.1	628	481.1	403.7	688	527.0	442.2
389	298.0	250.0	449	344.0	288.6	509	389.9	327.2	569	435.9	365.7	629	481.8	404.3	689	527.8	442.9
390	298.8	250.7	450	344.7	289.3	510	390.7	327.8	570	436.6	366.4	630	482.6	405.0	690	528.6	443.5
391	299.5	251.3	451	345.5	289.9	511	391.4	328.5	571	437.4	367.0	631	483.4	405.6	691	529.3	444.2
392	300.3	252.0	452	346.3	290.5	512	392.2	329.1	572	438.2	367.7	632	484.1	406.2	692	530.1	444.8
393	301.1	252.6	453	347.0	291.2	513	393.0	329.8	573	438.9	368.3	633	484.9	406.9	693	530.9	445.5
394	301.8	253.3	454	347.8	291.8	514	393.7	330.4	574	439.7	369.0	634	485.7	407.5	694	531.6	446.1
395	302.6	253.9	455	348.6	292.5	515	394.5	331.0	575	440.5	369.6	635	486.4	408.2	695	532.4	446.7
396	303.4	254.5	456	349.3	293.1	516	395.3	331.7	576	441.2	370.2	636	487.2	408.8	696	533.2	447.4
397	304.1	255.2	457	350.1	293.8	517	396.0	332.3	577	442.0	370.9	637	488.0	409.5	697	533.9	448.0
398	304.9	255.8	458	350.8	294.4	518	396.8	333.0	578	442.8	371.5	638	488.7	410.1	698	534.7	448.7
399	305.7	256.5	459	351.6	295.0	519	397.6	333.6	579	443.5	372.2	639	489.5	410.7	699	535.5	449.3
400	306.4	257.1	460	352.4	295.7	520	398.3	334.2	580	444.3	372.8	640	490.3	411.4	700	536.2	450.0
401	307.2	257.8	461	353.1	296.3	521	399.1	334.9	581	445.1	373.5	641	491.0	412.0	701	537.0	450.6
402	307.9	258.4	462	353.9	297.0	522	399.9	335.5	582	445.8	374.1	642	491.8	412.7	702	537.8	451.2
403	308.7	259.0	463	354.7	297.6	523	400.6	336.2	583	446.6	374.7	643	492.6	413.3	703	538.5	451.9
404	309.5	259.7	464	355.4	298.3	524	401.4	336.8	584	447.4	375.4	644	493.3	414.0	704	539.3	452.5
405	310.2	260.3	465	356.2	298.9	525	402.2	337.5	585	448.1	376.0	645	494.1	414.6	705	540.1	453.2
406	311.0	261.0	466	357.0	299.5	526	402.9	338.1	586	448.9	376.7	646	494.9	415.2	706	540.8	453.8
407	311.8	261.6	467	357.7	300.2	527	403.7	338.7	587	449.7	377.3	647	495.6	415.9	707	541.6	454.5
408	312.5	262.3	468	358.5	300.8	528	404.5	339.4	588	450.4	378.0	648	496.4	416.5	708	542.4	455.1
409	313.3	262.9	469	359.3	301.5	529	405.2	340.0	589	451.2	378.6	649	497.2	417.2	709	543.1	455.7
410	314.1	263.5	470	360.0	302.1	530	406.0	340.7	590	452.0	379.2	650	497.9	417.8	710	543.9	456.4
411	314.8	264.2	471	360.8	302.8	531	406.8	341.3	591	452.7	379.9	651	498.7	418.5	711	544.7	457.0
412	315.6	264.8	472	361.6	303.4	532	407.5	342.0	592	453.5	380.5	652	499.5	419.1	712	545.4	457.7
413	316.4	265.5	473	362.3	304.0	533	408.3	342.6	593	454.3	381.2	653	500.2	419.7	713	546.2	458.3
414	317.1	266.1	474	363.1	304.7	534	409.1	343.2	594	455.0	381.8	654	501.0	420.4	714	547.0	459.0
415	317.9	266.8	475	363.9	305.3	535	409.8	343.9	595	455.8	382.5	655	501.8	421.0	715	547.7	459.6
416	318.7	267.4	476	364.6	306.0	536	410.6	344.5	596	456.6	383.1	656	502.5	421.7	716	548.5	460.2
417	319.4	268.0	477	365.4	306.6	537	411.4	345.2	597	457.3	383.7	657	503.3	422.3	717	549.3	460.9
418	320.2	268.7	478	366.2	307.3	538	412.1	345.8	598	458.1	384.4	658	504.1	423.0	718	550.0	461.5
419	321.0	269.3	479	366.9	307.9	539	412.9	346.5	599	458.9	385.0	659	504.8	423.6	719	550.8	462.2
420	321.7	270.0	480	367.7	308.5	540	413.7	347.1	600	459.6	385.7	660	505.6	424.2	720	551.6	462.8

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	0.8	0.7	61	46.0	40.0	121	91.3	79.4	181	136.6	118.7	241	181.9	158.1	301	227.2	197.5
2	1.5	1.3	62	46.8	40.7	122	92.1	80.0	182	137.4	119.4	242	182.6	158.8	302	227.9	198.1
3	2.3	2.0	63	47.5	41.3	123	92.8	80.7	183	138.1	120.1	243	183.4	159.4	303	228.7	198.8
4	3.0	2.6	64	48.3	42.0	124	93.6	81.4	184	138.9	120.7	244	184.1	160.1	304	229.4	199.4
5	3.8	3.3	65	49.1	42.6	125	94.3	82.0	185	139.6	121.4	245	184.9	160.7	305	230.2	200.1
6	4.5	3.9	66	49.8	43.3	126	95.1	82.7	186	140.4	122.0	246	185.7	161.4	306	230.9	200.8
7	5.3	4.6	67	50.6	44.0	127	95.8	83.3	187	141.1	122.7	247	186.4	162.0	307	231.7	201.4
8	6.0	5.2	68	51.3	44.6	128	96.6	84.0	188	141.9	123.3	248	187.2	162.7	308	232.5	202.1
9	6.8	5.9	69	52.1	45.3	129	97.4	84.6	189	142.6	124.0	249	187.9	163.4	309	233.2	202.7
10	7.5	6.6	70	52.8	45.9	130	98.1	85.3	190	143.4	124.7	250	188.7	164.0	310	234.0	203.4
11	8.3	7.2	71	53.6	46.6	131	98.9	85.9	191	144.1	125.3	251	189.4	164.7	311	234.7	204.0
12	9.1	7.9	72	54.3	47.2	132	99.6	86.6	192	144.9	126.0	252	190.2	165.3	312	235.5	204.7
13	9.8	8.5	73	55.1	47.9	133	100.4	87.3	193	145.7	126.6	253	190.9	166.0	313	236.2	205.3
14	10.6	9.2	74	55.8	48.5	134	101.1	87.9	194	146.4	127.3	254	191.7	166.6	314	237.0	206.0
15	11.3	9.8	75	56.6	49.2	135	101.9	88.6	195	147.2	127.9	255	192.5	167.3	315	237.7	206.7
16	12.1	10.5	76	57.4	49.9	136	102.6	89.2	196	147.9	128.6	256	193.2	168.0	316	238.5	207.3
17	12.8	11.2	77	58.1	50.5	137	103.4	89.9	197	148.7	129.2	257	194.0	168.6	317	239.2	208.0
18	13.6	11.8	78	58.9	51.2	138	104.1	90.5	198	149.4	129.9	258	194.7	169.3	318	240.0	208.6
19	14.3	12.5	79	59.6	51.8	139	104.9	91.2	199	150.2	130.6	259	195.5	169.9	319	240.8	209.3
20	15.1	13.1	80	60.4	52.5	140	105.7	91.8	200	150.9	131.2	260	196.2	170.6	320	241.5	209.9
21	15.8	13.8	81	61.1	53.1	141	106.4	92.5	201	151.7	131.9	261	197.0	171.2	321	242.3	210.6
22	16.6	14.4	82	61.9	53.8	142	107.2	93.2	202	152.5	132.5	262	197.7	171.9	322	243.0	211.3
23	17.4	15.1	83	62.6	54.5	143	107.9	93.8	203	153.2	133.2	263	198.5	172.5	323	243.8	211.9
24	18.1	15.7	84	63.4	55.1	144	108.7	94.5	204	154.0	133.8	264	199.2	173.2	324	244.5	212.6
25	18.9	16.4	85	64.2	55.8	145	109.4	95.1	205	154.7	134.5	265	200.0	173.9	325	245.3	213.2
26	19.6	17.1	86	64.9	56.4	146	110.2	95.8	206	155.5	135.1	266	200.8	174.5	326	246.0	213.9
27	20.4	17.7	87	65.7	57.1	147	110.9	96.4	207	156.2	135.8	267	201.5	175.2	327	246.8	214.5
28	21.1	18.4	88	66.4	57.7	148	111.7	97.1	208	157.0	136.5	268	202.3	175.8	328	247.5	215.2
29	21.9	19.0	89	67.2	58.4	149	112.5	97.8	209	157.7	137.1	269	203.0	176.5	329	248.3	215.8
30	22.6	19.7	90	67.9	59.0	150	113.2	98.4	210	158.5	137.8	270	203.8	177.1	330	249.1	216.5
31	23.4	20.3	91	68.7	59.7	151	114.0	99.1	211	159.2	138.4	271	204.5	177.8	331	249.8	217.2
32	24.2	21.0	92	69.4	60.4	152	114.7	99.7	212	160.0	139.1	272	205.3	178.4	332	250.6	217.8
33	24.9	21.6	93	70.2	61.0	153	115.5	100.4	213	160.8	139.7	273	206.0	179.1	333	251.3	218.5
34	25.7	22.3	94	70.9	61.7	154	116.2	101.0	214	161.5	140.4	274	206.8	179.8	334	252.1	219.1
35	26.4	23.0	95	71.7	62.3	155	117.0	101.7	215	162.3	141.1	275	207.5	180.4	335	252.8	219.8
36	27.2	23.6	96	72.5	63.0	156	117.7	102.3	216	163.0	141.7	276	208.3	181.1	336	253.6	220.4
37	27.9	24.3	97	73.2	63.6	157	118.5	103.0	217	163.8	142.4	277	209.1	181.7	337	254.3	221.1
38	28.7	24.9	98	74.0	64.3	158	119.2	103.7	218	164.5	143.0	278	209.8	182.4	338	255.1	221.7
39	29.4	25.6	99	74.7	64.9	159	120.0	104.3	219	165.3	143.7	279	210.6	183.0	339	255.8	222.4
40	30.2	26.2	100	75.5	65.6	160	120.8	105.0	220	166.0	144.3	280	211.3	183.7	340	256.6	223.1
41	30.9	26.9	101	76.2	66.3	161	121.5	105.6	221	166.8	145.0	281	212.1	184.4	341	257.4	223.7
42	31.7	27.6	102	77.0	66.9	162	122.3	106.3	222	167.5	145.6	282	212.8	185.0	342	258.1	224.4
43	32.5	28.2	103	77.7	67.6	163	123.0	106.9	223	168.3	146.3	283	213.6	185.7	343	258.9	225.0
44	33.2	28.9	104	78.5	68.2	164	123.8	107.6	224	169.1	147.0	284	214.3	186.3	344	259.6	225.7
45	34.0	29.5	105	79.2	68.9	165	124.5	108.2	225	169.8	147.6	285	215.1	187.0	345	260.4	226.3
46	34.7	30.2	106	80.0	69.5	166	125.3	108.9	226	170.6	148.3	286	215.8	187.6	346	261.1	227.0
47	35.5	30.8	107	80.8	70.2	167	126.0	109.6	227	171.3	148.9	287	216.6	188.3	347	261.9	227.7
48	36.2	31.5	108	81.5	70.9	168	126.8	110.2	228	172.1	149.6	288	217.4	188.9	348	262.6	228.3
49	37.0	32.1	109	82.3	71.5	169	127.5	110.9	229	172.8	150.2	289	218.1	189.6	349	263.4	229.0
50	37.7	32.8	110	83.0	72.2	170	128.3	111.5	230	173.6	150.9	290	218.9	190.3	350	264.1	229.6
51	38.5	33.5	111	83.8	72.8	171	129.1	112.2	231	174.3	151.5	291	219.6	190.9	351	264.9	230.3
52	39.2	34.1	112	84.5	73.5	172	129.8	112.8	232	175.1	152.2	292	220.4	191.6	352	265.7	230.9
53	40.0	34.8	113	85.3	74.1	173	130.6	113.5	233	175.8	152.9	293	221.1	192.2	353	266.4	231.6
54	40.8	35.4	114	86.0	74.8	174	131.3	114.2	234	176.6	153.5	294	221.9	192.9	354	267.2	232.2
55	41.5	36.1	115	86.8	75.4	175	132.1	114.8	235	177.4	154.2	295	222.6	193.5	355	267.9	232.9
56	42.3	36.7	116	87.5	76.1	176	132.8	115.5	236	178.1	154.8	296	223.4	194.2	356	268.7	233.6
57	43.0	37.4	117	88.3	76.8	177	133.6	116.1	237	178.9	155.5	297	224.1	194.8	357	269.4	234.2
58	43.8	38.1	118	89.1	77.4	178	134.3	116.8	238	179.6	156.1	298	224.9	195.5	358	270.2	234.9
59	44.5	38.7	119	89.8	78.1	179	135.1	117.4	239	180.4	156.8	299	225.7	196.2	359	270.9	235.5
60	45.3	39.4	120	90.6	78.7	180	135.8	118.1	240	181.1	157.5	300	226.4	196.8	360	271.7	236.2
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	272.5	236.8	421	317.7	276.2	481	363.0	315.6	541	408.3	354.9	601	453.6	394.3	661	498.9	433.7
362	273.2	237.5	422	318.5	276.9	482	363.8	316.2	542	409.1	355.6	602	454.3	394.9	662	499.6	434.3
363	274.0	238.1	423	319.2	277.5	483	364.5	316.9	543	409.8	356.2	603	455.1	395.6	663	500.4	435.0
364	274.7	238.8	424	320.0	278.2	484	365.3	317.5	544	410.6	356.9	604	455.8	396.3	664	501.1	435.6
365	275.5	239.5	425	320.8	278.8	485	366.0	318.2	545	411.3	357.6	605	456.6	396.9	665	501.9	436.3
366	276.2	240.1	426	321.5	279.5	486	366.8	318.8	546	412.1	358.2	606	457.4	397.6	666	502.6	436.9
367	277.0	240.8	427	322.3	280.1	487	367.5	319.5	547	412.8	358.9	607	458.1	398.2	667	503.4	437.6
368	277.7	241.4	428	323.0	280.8	488	368.3	320.2	548	413.6	359.5	608	458.9	398.9	668	504.1	438.2
369	278.5	242.1	429	323.8	281.4	489	369.1	320.8	549	414.3	360.2	609	459.6	399.5	669	504.9	438.9
370	279.2	242.7	430	324.5	282.1	490	369.8	321.5	550	415.1	360.8	610	460.4	400.2	670	505.7	439.6
371	280.0	243.4	431	325.3	282.8	491	370.6	322.1	551	415.8	361.5	611	461.1	400.9	671	506.4	440.2
372	280.8	244.1	432	326.0	283.4	492	371.3	322.8	552	416.6	362.1	612	461.9	401.5	672	507.2	440.9
373	281.5	244.7	433	326.8	284.1	493	372.1	323.4	553	417.4	362.8	613	462.6	402.2	673	507.9	441.5
374	282.3	245.4	434	327.5	284.7	494	372.8	324.1	554	418.1	363.5	614	463.4	402.8	674	508.7	442.2
375	283.0	246.0	435	328.3	285.4	495	373.6	324.7	555	418.9	364.1	615	464.1	403.5	675	509.4	442.8
376	283.8	246.7	436	329.1	286.0	496	374.3	325.4	556	419.6	364.8	616	464.9	404.1	676	510.2	443.5
377	284.5	247.3	437	329.8	286.7	497	375.1	326.1	557	420.4	365.4	617	465.7	404.8	677	510.9	444.2
378	285.3	248.0	438	330.6	287.4	498	375.8	326.7	558	421.1	366.1	618	466.4	405.4	678	511.7	444.8
379	286.0	248.6	439	331.3	288.0	499	376.6	327.4	559	421.9	366.7	619	467.2	406.1	679	512.4	445.5
380	286.8	249.3	440	332.1	288.7	500	377.4	328.0	560	422.6	367.4	620	467.9	406.8	680	513.2	446.1
381	287.5	250.0	441	332.8	289.3	501	378.1	328.7	561	423.4	368.0	621	468.7	407.4	681	514.0	446.8
382	288.3	250.6	442	333.6	290.0	502	378.9	329.3	562	424.1	368.7	622	469.4	408.1	682	514.7	447.4
383	289.1	251.3	443	334.3	290.6	503	379.6	330.0	563	424.9	369.4	623	470.2	408.7	683	515.5	448.1
384	289.8	251.9	444	335.1	291.3	504	380.4	330.7	564	425.7	370.0	624	470.9	409.4	684	516.2	448.7
385	290.6	252.6	445	335.8	291.9	505	381.1	331.3	565	426.4	370.7	625	471.7	410.0	685	517.0	449.4
386	291.3	253.2	446	336.6	292.6	506	381.9	332.0	566	427.2	371.3	626	472.4	410.7	686	517.7	450.1
387	292.1	253.9	447	337.4	293.3	507	382.6	332.6	567	427.9	372.0	627	473.2	411.3	687	518.5	450.7
388	292.8	254.6	448	338.1	293.9	508	383.4	333.3	568	428.7	372.6	628	474.0	412.0	688	519.2	451.4
389	293.6	255.2	449	338.9	294.6	509	384.1	333.9	569	429.4	373.3	629	474.7	412.7	689	520.0	452.0
390	294.3	255.9	450	339.6	295.2	510	384.9	334.6	570	430.2	374.0	630	475.5	413.3	690	520.7	452.7
391	295.1	256.5	451	340.4	295.9	511	385.7	335.2	571	430.9	374.6	631	476.2	414.0	691	521.5	453.3
392	295.8	257.2	452	341.1	296.5	512	386.4	335.9	572	431.7	375.3	632	477.0	414.6	692	522.3	454.0
393	296.6	257.8	453	341.9	297.2	513	387.2	336.6	573	432.4	375.9	633	477.7	415.3	693	523.0	454.6
394	297.4	258.5	454	342.6	297.9	514	387.9	337.2	574	433.2	376.6	634	478.5	415.9	694	523.8	455.3
395	298.1	259.1	455	343.4	298.5	515	388.7	337.9	575	434.0	377.2	635	479.2	416.6	695	524.5	456.0
396	298.9	259.8	456	344.1	299.2	516	389.4	338.5	576	434.7	377.9	636	480.0	417.3	696	525.3	456.6
397	299.6	260.5	457	344.9	299.8	517	390.2	339.2	577	435.5	378.5	637	480.8	417.9	697	526.0	457.3
398	300.4	261.1	458	345.7	300.5	518	390.9	339.8	578	436.2	379.2	638	481.5	418.6	698	526.8	457.9
399	301.1	261.8	459	346.4	301.1	519	391.7	340.5	579	437.0	379.9	639	482.3	419.2	699	527.5	458.6
400	301.9	262.4	460	347.2	301.8	520	392.4	341.2	580	437.7	380.5	640	483.0	419.9	700	528.3	459.2
401	302.6	263.1	461	347.9	302.4	521	393.2	341.8	581	438.5	381.2	641	483.8	420.5	701	529.1	459.9
402	303.4	263.7	462	348.7	303.1	522	394.0	342.5	582	439.2	381.8	642	484.5	421.2	702	529.8	460.6
403	304.1	264.4	463	349.4	303.8	523	394.7	343.1	583	440.0	382.5	643	485.3	421.8	703	530.6	461.2
404	304.9	265.0	464	350.2	304.4	524	395.5	343.8	584	440.8	383.1	644	486.0	422.5	704	531.3	461.9
405	305.7	265.7	465	350.9	305.1	525	396.2	344.4	585	441.5	383.8	645	486.8	423.2	705	532.1	462.5
406	306.4	266.4	466	351.7	305.7	526	397.0	345.1	586	442.3	384.5	646	487.5	423.8	706	532.8	463.2
407	307.2	267.0	467	352.4	306.4	527	397.7	345.7	587	443.0	385.1	647	488.3	424.5	707	533.6	463.8
408	307.9	267.7	468	353.2	307.0	528	398.5	346.4	588	443.8	385.8	648	489.1	425.1	708	534.3	464.5
409	308.7	268.3	469	354.0	307.7	529	399.2	347.1	589	444.5	386.4	649	489.8	425.8	709	535.1	465.1
410	309.4	269.0	470	354.7	308.3	530	400.0	347.7	590	445.3	387.1	650	490.6	426.4	710	535.8	465.8
411	310.2	269.6	471	355.5	309.0	531	400.8	348.4	591	446.0	387.7	651	491.3	427.1	711	536.6	466.5
412	310.9	270.3	472	356.2	309.7	532	401.5	349.0	592	446.8	388.4	652	492.1	427.8	712	537.4	467.1
413	311.7	271.0	473	357.0	310.3	533	402.3	349.7	593	447.5	389.0	653	492.8	428.4	713	538.1	467.8
414	312.4	271.6	474	357.7	311.0	534	403.0	350.3	594	448.3	389.7	654	493.6	429.1	714	538.9	468.4
415	313.2	272.3	475	358.5	311.6	535	403.8	351.0	595	449.1	390.4	655	494.3	429.7	715	539.6	469.1
416	314.0	272.9	476	359.2	312.3	536	404.5	351.6	596	449.8	391.0	656	495.1	430.4	716	540.4	469.7
417	314.7	273.6	477	360.0	312.9	537	405.3	352.3	597	450.6	391.7	657	495.8	431.0	717	541.1	470.4
418	315.5	274.2	478	360.8	313.6	538	406.0	353.0	598	451.3	392.3	658	496.6	431.7	718	541.9	471.1
419	316.2	274.9	479	361.6	314.3	539	406.8	353.6	599	452.1	393.0	659	497.4	432.3	719	542.6	471.7
420	317.0	275.5	480	362.3	314.9	540	407.5	354.3	600	452.8	393.6	660	498.1	433.0	720	543.4	472.4
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	0.7	0.7	61	45.3	40.8	121	89.9	81.0	181	134.5	121.1	241	179.1	161.3	301	223.7	201.4
2	1.5	1.3	62	46.1	41.5	122	90.7	81.6	182	135.3	121.8	242	179.8	161.9	302	224.4	202.1
3	2.2	2.0	63	46.8	42.2	123	91.4	82.3	183	136.0	122.5	243	180.6	162.6	303	225.2	202.7
4	3.0	2.7	64	47.6	42.8	124	92.1	83.0	184	136.7	123.1	244	181.3	163.3	304	225.9	203.4
5	3.7	3.3	65	48.3	43.5	125	92.9	83.6	185	137.5	123.8	245	182.1	163.9	305	226.7	204.1
6	4.5	4.0	66	49.0	44.2	126	93.6	84.3	186	138.2	124.5	246	182.8	164.6	306	227.4	204.8
7	5.2	4.7	67	49.8	44.8	127	94.4	85.0	187	139.0	125.1	247	183.6	165.3	307	228.1	205.4
8	5.9	5.4	68	50.5	45.5	128	95.1	85.6	188	139.7	125.8	248	184.3	165.9	308	228.9	206.1
9	6.7	6.0	69	51.3	46.2	129	95.9	86.3	189	140.5	126.5	249	185.0	166.6	309	229.6	206.8
10	7.4	6.7	70	52.0	46.8	130	96.6	87.0	190	141.2	127.1	250	185.8	167.3	310	230.4	207.4
11	8.2	7.4	71	52.8	47.5	131	97.4	87.7	191	141.9	127.8	251	186.5	168.0	311	231.1	208.1
12	8.9	8.0	72	53.5	48.2	132	98.1	88.3	192	142.7	128.5	252	187.3	168.6	312	231.9	208.8
13	9.7	8.7	73	54.2	48.8	133	98.8	89.0	193	143.4	129.1	253	188.0	169.3	313	232.6	209.4
14	10.4	9.4	74	55.0	49.5	134	99.6	89.7	194	144.2	129.8	254	188.8	170.0	314	233.3	210.1
15	11.1	10.0	75	55.7	50.2	135	100.3	90.3	195	144.9	130.5	255	189.5	170.6	315	234.1	210.8
16	11.9	10.7	76	56.5	50.9	136	101.1	91.0	196	145.7	131.1	256	190.2	171.3	316	234.8	211.4
17	12.6	11.4	77	57.2	51.5	137	101.8	91.7	197	146.4	131.8	257	191.0	172.0	317	235.6	212.1
18	13.4	12.0	78	58.0	52.2	138	102.6	92.3	198	147.1	132.5	258	191.7	172.6	318	236.3	212.8
19	14.1	12.7	79	58.7	52.9	139	103.3	93.0	199	147.9	133.2	259	192.5	173.3	319	237.1	213.5
20	14.9	13.4	80	59.5	53.5	140	104.0	93.7	200	148.6	133.8	260	193.2	174.0	320	237.8	214.1
21	15.6	14.1	81	60.2	54.2	141	104.8	94.3	201	149.4	134.5	261	194.0	174.6	321	238.5	214.8
22	16.3	14.7	82	60.9	54.9	142	105.5	95.0	202	150.1	135.2	262	194.7	175.3	322	239.3	215.5
23	17.1	15.4	83	61.7	55.5	143	106.3	95.7	203	150.9	135.8	263	195.4	176.0	323	240.0	216.1
24	17.8	16.1	84	62.4	56.2	144	107.0	96.4	204	151.6	136.5	264	196.2	176.7	324	240.8	216.8
25	18.6	16.7	85	63.2	56.9	145	107.8	97.0	205	152.3	137.2	265	196.9	177.3	325	241.5	217.5
26	19.3	17.4	86	63.9	57.5	146	108.5	97.7	206	153.1	137.8	266	197.7	178.0	326	242.3	218.1
27	20.1	18.1	87	64.7	58.2	147	109.2	98.4	207	153.8	138.5	267	198.4	178.7	327	243.0	218.8
28	20.8	18.7	88	65.4	58.9	148	110.0	99.0	208	154.6	139.2	268	199.2	179.3	328	243.8	219.5
29	21.6	19.4	89	66.1	59.6	149	110.7	99.7	209	155.3	139.8	269	199.9	180.0	329	244.5	220.1
30	22.3	20.1	90	66.9	60.2	150	111.5	100.4	210	156.1	140.5	270	200.6	180.7	330	245.2	220.8
31	23.0	20.7	91	67.6	60.9	151	112.2	101.0	211	156.8	141.2	271	201.4	181.3	331	246.0	221.5
32	23.8	21.4	92	68.4	61.6	152	113.0	101.7	212	157.5	141.9	272	202.1	182.0	332	246.7	222.2
33	24.5	22.1	93	69.1	62.2	153	113.7	102.4	213	158.3	142.5	273	202.9	182.7	333	247.5	222.8
34	25.3	22.8	94	69.9	62.9	154	114.4	103.0	214	159.0	143.2	274	203.6	183.3	334	248.2	223.5
35	26.0	23.4	95	70.6	63.6	155	115.2	103.7	215	159.8	143.9	275	204.4	184.0	335	249.0	224.2
36	26.8	24.1	96	71.3	64.2	156	115.9	104.4	216	160.5	144.5	276	205.1	184.7	336	249.7	224.8
37	27.5	24.8	97	72.1	64.9	157	116.7	105.1	217	161.3	145.2	277	205.9	185.3	337	250.4	225.5
38	28.2	25.4	98	72.8	65.6	158	117.4	105.7	218	162.0	145.9	278	206.6	186.0	338	251.2	226.2
39	29.0	26.1	99	73.6	66.2	159	118.2	106.4	219	162.7	146.5	279	207.3	186.7	339	251.9	226.8
40	29.7	26.8	100	74.3	66.9	160	118.9	107.1	220	163.5	147.2	280	208.1	187.4	340	252.7	227.5
41	30.5	27.4	101	75.1	67.6	161	119.6	107.7	221	164.2	147.9	281	208.8	188.0	341	253.4	228.2
42	31.2	28.1	102	75.8	68.3	162	120.4	108.4	222	165.0	148.5	282	209.6	188.7	342	254.2	228.8
43	32.0	28.8	103	76.5	68.9	163	121.1	109.1	223	165.7	149.2	283	210.3	189.4	343	254.9	229.5
44	32.7	29.4	104	77.3	69.6	164	121.9	109.7	224	166.5	149.9	284	211.1	190.0	344	255.6	230.2
45	33.4	30.1	105	78.0	70.3	165	122.6	110.4	225	167.2	150.6	285	211.8	190.7	345	256.4	230.9
46	34.2	30.8	106	78.8	70.9	166	123.4	111.1	226	168.0	151.2	286	212.5	191.4	346	257.1	231.5
47	34.9	31.4	107	79.5	71.6	167	124.1	111.7	227	168.7	151.9	287	213.3	192.0	347	257.9	232.2
48	35.7	32.1	108	80.3	72.3	168	124.8	112.4	228	169.4	152.6	288	214.0	192.7	348	258.6	232.9
49	36.4	32.8	109	81.0	72.9	169	125.6	113.1	229	170.2	153.2	289	214.8	193.4	349	259.4	233.5
50	37.2	33.5	110	81.7	73.6	170	126.3	113.8	230	170.9	153.9	290	215.5	194.0	350	260.1	234.2
51	37.9	34.1	111	82.5	74.3	171	127.1	114.4	231	171.7	154.6	291	216.3	194.7	351	260.8	234.9
52	38.6	34.8	112	83.2	74.9	172	127.8	115.1	232	172.4	155.2	292	217.0	195.4	352	261.6	235.5
53	39.4	35.5	113	84.0	75.6	173	128.6	115.8	233	173.2	155.9	293	217.7	196.1	353	262.3	236.2
54	40.1	36.1	114	84.7	76.3	174	129.3	116.4	234	173.9	156.6	294	218.5	196.7	354	263.1	236.9
55	40.9	36.8	115	85.5	77.0	175	130.1	117.1	235	174.6	157.2	295	219.2	197.4	355	263.8	237.5
56	41.6	37.5	116	86.2	77.6	176	130.8	117.8	236	175.4	157.9	296	220.0	198.1	356	264.6	238.2
57	42.4	38.1	117	86.9	78.3	177	131.5	118.4	237	176.1	158.6	297	220.7	198.7	357	265.3	238.9
58	43.1	38.8	118	87.7	79.0	178	132.3	119.1	238	176.9	159.3	298	221.5	199.4	358	266.0	239.5
59	43.8	39.5	119	88.4	79.6	179	133.0	119.8	239	177.6	159.9	299	222.2	200.1	359	266.8	240.2
60	44.6	40.1	120	89.2	80.3	180	133.8	120.4	240	178.4	160.6	300	222.9	200.7	360	267.5	240.9
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	268.3	241.6	421	312.9	281.7	481	357.5	321.9	541	402.0	362.0	601	446.6	402.1	661	491.2	442.3
362	269.0	242.2	422	313.6	282.4	482	358.2	322.5	542	402.8	362.7	602	447.4	402.8	662	492.0	443.0
363	269.8	242.9	423	314.4	283.0	483	358.9	323.2	543	403.5	363.3	603	448.1	403.5	663	492.7	443.6
364	270.5	243.6	424	315.1	283.7	484	359.7	323.9	544	404.3	364.0	604	448.9	404.2	664	493.4	444.3
365	271.2	244.2	425	315.8	284.4	485	360.4	324.5	545	405.0	364.7	605	449.6	404.8	665	494.2	445.0
366	272.0	244.9	426	316.6	285.0	486	361.2	325.2	546	405.8	365.3	606	450.3	405.5	666	494.9	445.6
367	272.7	245.6	427	317.3	285.7	487	361.9	325.9	547	406.5	366.0	607	451.1	406.2	667	495.7	446.3
368	273.5	246.2	428	318.1	286.4	488	362.7	326.5	548	407.2	366.7	608	451.8	406.8	668	496.4	447.0
369	274.2	246.9	429	318.8	287.1	489	363.4	327.2	549	408.0	367.4	609	452.6	407.5	669	497.2	447.6
370	275.0	247.6	430	319.6	287.7	490	364.1	327.9	550	408.7	368.0	610	453.3	408.2	670	497.9	448.3
371	275.7	248.2	431	320.3	288.4	491	364.9	328.5	551	409.5	368.7	611	454.1	408.8	671	498.7	449.0
372	276.4	248.9	432	321.0	289.1	492	365.6	329.2	552	410.2	369.4	612	454.8	409.5	672	499.4	449.7
373	277.2	249.6	433	321.8	289.7	493	366.4	329.9	553	411.0	370.0	613	455.5	410.2	673	500.1	450.3
374	277.9	250.3	434	322.5	290.4	494	367.1	330.6	554	411.7	370.7	614	456.3	410.8	674	500.9	451.0
375	278.7	250.9	435	323.3	291.1	495	367.9	331.2	555	412.4	371.4	615	457.0	411.5	675	501.6	451.7
376	279.4	251.6	436	324.0	291.7	496	368.6	331.9	556	413.2	372.0	616	457.8	412.2	676	502.4	452.3
377	280.2	252.3	437	324.8	292.4	497	369.3	332.6	557	413.9	372.7	617	458.5	412.9	677	503.1	453.0
378	280.9	252.9	438	325.5	293.1	498	370.1	333.2	558	414.7	373.4	618	459.3	413.5	678	503.9	453.7
379	281.7	253.6	439	326.2	293.7	499	370.8	333.9	559	415.4	374.0	619	460.0	414.2	679	504.6	454.3
380	282.4	254.3	440	327.0	294.4	500	371.6	334.6	560	416.2	374.7	620	460.7	414.9	680	505.3	455.0
381	283.1	254.9	441	327.7	295.1	501	372.3	335.2	561	416.9	375.4	621	461.5	415.5	681	506.1	455.7
382	283.9	255.6	442	328.5	295.8	502	373.1	335.9	562	417.6	376.1	622	462.2	416.2	682	506.8	456.3
383	284.6	256.3	443	329.2	296.4	503	373.8	336.6	563	418.4	376.7	623	463.0	416.9	683	507.6	457.0
384	285.4	256.9	444	330.0	297.1	504	374.5	337.2	564	419.1	377.4	624	463.7	417.5	684	508.3	457.7
385	286.1	257.6	445	330.7	297.8	505	375.3	337.9	565	419.9	378.1	625	464.5	418.2	685	509.1	458.4
386	286.9	258.3	446	331.4	298.4	506	376.0	338.6	566	420.6	378.7	626	465.2	418.9	686	509.8	459.0
387	287.6	259.0	447	332.2	299.1	507	376.8	339.2	567	421.4	379.4	627	466.0	419.5	687	510.5	459.7
388	288.3	259.6	448	332.9	299.8	508	377.5	339.9	568	422.1	380.1	628	466.7	420.2	688	511.3	460.4
389	289.1	260.3	449	333.7	300.4	509	378.3	340.6	569	422.8	380.7	629	467.4	420.9	689	512.0	461.0
390	289.8	261.0	450	334.4	301.1	510	379.0	341.3	570	423.6	381.4	630	468.2	421.6	690	512.8	461.7
391	290.6	261.6	451	335.2	301.8	511	379.7	341.9	571	424.3	382.1	631	468.9	422.2	691	513.5	462.4
392	291.3	262.3	452	335.9	302.4	512	380.5	342.6	572	425.1	382.7	632	469.7	422.9	692	514.3	463.0
393	292.1	263.0	453	336.6	303.1	513	381.2	343.3	573	425.8	383.4	633	470.4	423.6	693	515.0	463.7
394	292.8	263.6	454	337.4	303.8	514	382.0	343.9	574	426.6	384.1	634	471.2	424.2	694	515.7	464.4
395	293.5	264.3	455	338.1	304.5	515	382.7	344.6	575	427.3	384.8	635	471.9	424.9	695	516.5	465.0
396	294.3	265.0	456	338.9	305.1	516	383.5	345.3	576	428.1	385.4	636	472.6	425.6	696	517.2	465.7
397	295.0	265.6	457	339.6	305.8	517	384.2	345.9	577	428.8	386.1	637	473.4	426.2	697	518.0	466.4
398	295.8	266.3	458	340.4	306.5	518	384.9	346.6	578	429.5	386.8	638	474.1	426.9	698	518.7	467.1
399	296.5	267.0	459	341.1	307.1	519	385.7	347.3	579	430.3	387.4	639	474.9	427.6	699	519.5	467.7
400	297.3	267.7	460	341.8	307.8	520	386.4	347.9	580	431.0	388.1	640	475.6	428.2	700	520.2	468.4
401	298.0	268.3	461	342.6	308.5	521	387.2	348.6	581	431.8	388.8	641	476.4	428.9	701	520.9	469.1
402	298.7	269.0	462	343.3	309.1	522	387.9	349.3	582	432.5	389.4	642	477.1	429.6	702	521.7	469.7
403	299.5	269.7	463	344.1	309.8	523	388.7	350.0	583	433.3	390.1	643	477.8	430.3	703	522.4	470.4
404	300.2	270.3	464	344.8	310.5	524	389.4	350.6	584	434.0	390.8	644	478.6	430.9	704	523.2	471.1
405	301.0	271.0	465	345.6	311.1	525	390.2	351.3	585	434.7	391.4	645	479.3	431.6	705	523.9	471.7
406	301.7	271.7	466	346.3	311.8	526	390.9	352.0	586	435.5	392.1	646	480.1	432.3	706	524.7	472.4
407	302.5	272.3	467	347.0	312.5	527	391.6	352.6	587	436.2	392.8	647	480.8	432.9	707	525.4	473.1
408	303.2	273.0	468	347.8	313.2	528	392.4	353.3	588	437.0	393.4	648	481.6	433.6	708	526.1	473.7
409	303.9	273.7	469	348.5	313.8	529	393.1	354.0	589	437.7	394.1	649	482.3	434.3	709	526.9	474.4
410	304.7	274.3	470	349.3	314.5	530	393.9	354.6	590	438.5	394.8	650	483.0	434.9	710	527.6	475.1
411	305.4	275.0	471	350.0	315.2	531	394.6	355.3	591	439.2	395.5	651	483.8	435.6	711	528.4	475.8
412	306.2	275.7	472	350.8	315.8	532	395.4	356.0	592	439.9	396.1	652	484.5	436.3	712	529.1	476.4
413	306.9	276.4	473	351.5	316.5	533	396.1	356.6	593	440.7	396.8	653	485.3	436.9	713	529.9	477.1
414	307.7	277.0	474	352.3	317.2	534	396.8	357.3	594	441.4	397.5	654	486.0	437.6	714	530.6	477.8
415	308.4	277.7	475	353.0	317.8	535	397.6	358.0	595	442.2	398.1	655	486.8	438.3	715	531.3	478.4
416	309.1	278.4	476	353.7	318.5	536	398.3	358.7	596	442.9	398.8	656	487.5	438.9	716	532.1	479.1
417	309.9	279.0	477	354.5	319.2	537	399.1	359.3	597	443.7	399.5	657	488.2	439.6	717	532.8	479.8
418	310.6	279.7	478	355.2	319.8	538	399.8	360.0	598	444.4	400.1	658	489.0	440.3	718	533.6	480.4
419	311.4	280.4	479	356.0	320.5	539	400.6	360.7	599	445.1	400.8	659	489.7	441.0	719	534.3	481.1
420	312.1	281.0	480	356.7	321.2	540	401.3	361.3	600	445.9	401.5	660	490.5	441.6	720	535.1	481.8

D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI
312°	48°		228°	132°													

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	0.7	0.7	61	44.6	41.6	121	88.5	82.5	181	132.4	123.4	241	176.3	164.4	301	220.1	205.3
2	1.5	1.4	62	45.3	42.3	122	89.2	83.2	182	133.1	124.1	242	177.0	165.0	302	220.9	206.0
3	2.2	2.0	63	46.1	43.0	123	90.0	83.9	183	133.8	124.8	243	177.7	165.7	303	221.6	206.6
4	2.9	2.7	64	46.8	43.6	124	90.7	84.6	184	134.6	125.5	244	178.5	166.4	304	222.3	207.3
5	3.7	3.4	65	47.5	44.3	125	91.4	85.2	185	135.3	126.2	245	179.2	167.1	305	223.1	208.0
6	4.4	4.1	66	48.3	45.0	126	92.2	85.9	186	136.0	126.9	246	179.9	167.8	306	223.8	208.7
7	5.1	4.8	67	49.0	45.7	127	92.9	86.6	187	136.8	127.5	247	180.6	168.5	307	224.5	209.4
8	5.9	5.5	68	49.7	46.4	128	93.6	87.3	188	137.5	128.2	248	181.4	169.1	308	225.3	210.1
9	6.6	6.1	69	50.5	47.1	129	94.3	88.0	189	138.2	128.9	249	182.1	169.8	309	226.0	210.7
10	7.3	6.8	70	51.2	47.7	130	95.1	88.7	190	139.0	129.6	250	182.8	170.5	310	226.7	211.4
11	8.0	7.5	71	51.9	48.4	131	95.8	89.3	191	139.7	130.3	251	183.6	171.2	311	227.5	212.1
12	8.8	8.2	72	52.7	49.1	132	96.5	90.0	192	140.4	130.9	252	184.3	171.9	312	228.2	212.8
13	9.5	8.9	73	53.4	49.8	133	97.3	90.7	193	141.2	131.6	253	185.0	172.5	313	228.9	213.5
14	10.2	9.5	74	54.1	50.5	134	98.0	91.4	194	141.9	132.3	254	185.8	173.2	314	229.6	214.1
15	11.0	10.2	75	54.9	51.1	135	98.7	92.1	195	142.6	133.0	255	186.5	173.9	315	230.4	214.8
16	11.7	10.9	76	55.6	51.8	136	99.5	92.8	196	143.3	133.7	256	187.2	174.6	316	231.1	215.5
17	12.4	11.6	77	56.3	52.5	137	100.2	93.4	197	144.1	134.4	257	188.0	175.3	317	231.8	216.2
18	13.2	12.3	78	57.0	53.2	138	100.9	94.1	198	144.8	135.0	258	188.7	176.0	318	232.6	216.9
19	13.9	13.0	79	57.8	53.9	139	101.7	94.8	199	145.5	135.7	259	189.4	176.6	319	233.3	217.6
20	14.6	13.6	80	58.5	54.6	140	102.4	95.5	200	146.3	136.4	260	190.2	177.3	320	234.0	218.2
21	15.4	14.3	81	59.2	55.2	141	103.1	96.2	201	147.0	137.1	261	190.9	178.0	321	234.8	218.9
22	16.1	15.0	82	60.0	55.9	142	103.9	96.8	202	147.7	137.8	262	191.6	178.7	322	235.5	219.6
23	16.8	15.7	83	60.7	56.6	143	104.6	97.5	203	148.5	138.4	263	192.3	179.4	323	236.2	220.3
24	17.6	16.4	84	61.4	57.3	144	105.3	98.2	204	149.2	139.1	264	193.1	180.0	324	237.0	221.0
25	18.3	17.0	85	62.2	58.0	145	106.0	98.9	205	149.9	139.8	265	193.8	180.7	325	237.7	221.6
26	19.0	17.7	86	62.9	58.7	146	106.8	99.6	206	150.7	140.5	266	194.5	181.4	326	238.4	222.3
27	19.7	18.4	87	63.6	59.3	147	107.5	100.3	207	151.4	141.2	267	195.3	182.1	327	239.2	223.0
28	20.5	19.1	88	64.4	60.0	148	108.2	100.9	208	152.1	141.9	268	196.0	182.8	328	239.9	223.7
29	21.2	19.8	89	65.1	60.7	149	109.0	101.6	209	152.9	142.5	269	196.7	183.5	329	240.6	224.4
30	21.9	20.5	90	65.8	61.4	150	109.7	102.3	210	153.6	143.2	270	197.5	184.1	330	241.3	225.1
31	22.7	21.1	91	66.6	62.1	151	110.4	103.0	211	154.3	143.9	271	198.2	184.8	331	242.1	225.7
32	23.4	21.8	92	67.3	62.7	152	111.2	103.7	212	155.0	144.6	272	198.9	185.5	332	242.8	226.4
33	24.1	22.5	93	68.0	63.4	153	111.9	104.3	213	155.8	145.3	273	199.7	186.2	333	243.5	227.1
34	24.9	23.2	94	68.7	64.1	154	112.6	105.0	214	156.5	145.9	274	200.4	186.9	334	244.3	227.8
35	25.6	23.9	95	69.5	64.8	155	113.4	105.7	215	157.2	146.6	275	201.1	187.5	335	245.0	228.5
36	26.3	24.6	96	70.2	65.5	156	114.1	106.4	216	158.0	147.3	276	201.9	188.2	336	245.7	229.2
37	27.1	25.2	97	70.9	66.2	157	114.8	107.1	217	158.7	148.0	277	202.6	188.9	337	246.5	229.8
38	27.8	25.9	98	71.7	66.8	158	115.6	107.8	218	159.4	148.7	278	203.3	189.6	338	247.2	230.5
39	28.5	26.6	99	72.4	67.5	159	116.3	108.4	219	160.2	149.4	279	204.0	190.3	339	247.9	231.2
40	29.3	27.3	100	73.1	68.2	160	117.0	109.1	220	160.9	150.0	280	204.8	191.0	340	248.7	231.9
41	30.0	28.0	101	73.9	68.9	161	117.7	109.8	221	161.6	150.7	281	205.5	191.6	341	249.4	232.6
42	30.7	28.6	102	74.6	69.6	162	118.5	110.5	222	162.4	151.4	282	206.2	192.3	342	250.1	233.2
43	31.4	29.3	103	75.3	70.2	163	119.2	111.2	223	163.1	152.1	283	207.0	193.0	343	250.9	233.9
44	32.2	30.0	104	76.1	70.9	164	119.9	111.8	224	163.8	152.8	284	207.7	193.7	344	251.6	234.6
45	32.9	30.7	105	76.8	71.6	165	120.7	112.5	225	164.6	153.4	285	208.4	194.4	345	252.3	235.3
46	33.6	31.4	106	77.5	72.3	166	121.4	113.2	226	165.3	154.1	286	209.2	195.1	346	253.0	236.0
47	34.4	32.1	107	78.3	73.0	167	122.1	113.9	227	166.0	154.8	287	209.9	195.7	347	253.8	236.7
48	35.1	32.7	108	79.0	73.7	168	122.9	114.6	228	166.7	155.5	288	210.6	196.4	348	254.5	237.3
49	35.8	33.4	109	79.7	74.3	169	123.6	115.3	229	167.5	156.2	289	211.4	197.1	349	255.2	238.0
50	36.6	34.1	110	80.4	75.0	170	124.3	115.9	230	168.2	156.9	290	212.1	197.8	350	256.0	238.7
51	37.3	34.8	111	81.2	75.7	171	125.1	116.6	231	168.9	157.5	291	212.8	198.5	351	256.7	239.4
52	38.0	35.5	112	81.9	76.4	172	125.8	117.3	232	169.7	158.2	292	213.6	199.1	352	257.4	240.1
53	38.8	36.1	113	82.6	77.1	173	126.5	118.0	233	170.4	158.9	293	214.3	199.8	353	258.2	240.7
54	39.5	36.8	114	83.4	77.7	174	127.3	118.7	234	171.1	159.6	294	215.0	200.5	354	258.9	241.4
55	40.2	37.5	115	84.1	78.4	175	128.0	119.3	235	171.9	160.3	295	215.7	201.2	355	259.6	242.1
56	41.0	38.2	116	84.8	79.1	176	128.7	120.0	236	172.6	161.0	296	216.5	201.9	356	260.4	242.8
57	41.7	38.9	117	85.6	79.8	177	129.4	120.7	237	173.3	161.6	297	217.2	202.6	357	261.1	243.5
58	42.4	39.6	118	86.3	80.5	178	130.2	121.4	238	174.1	162.3	298	217.9	203.2	358	261.8	244.2
59	43.1	40.2	119	87.0	81.2	179	130.9	122.1	239	174.8	163.0	299	218.7	203.9	359	262.6	244.8
60	43.9	40.9	120	87.8	81.8	180	131.6	122.8	240	175.5	163.7	300	219.4	204.6	360	263.3	245.5
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	264.0	246.2	421	307.9	287.1	481	351.8	328.0	541	395.7	369.0	601	439.5	409.9	661	483.4	450.8
362	264.8	246.9	422	308.6	287.8	482	352.5	328.7	542	396.4	369.6	602	440.3	410.6	662	484.2	451.5
363	265.5	247.6	423	309.4	288.5	483	353.2	329.4	543	397.1	370.3	603	441.0	411.2	663	484.9	452.2
364	266.2	248.2	424	310.1	289.2	484	354.0	330.1	544	397.9	371.0	604	441.7	411.9	664	485.6	452.8
365	266.9	248.9	425	310.8	289.8	485	354.7	330.8	545	398.6	371.7	605	442.5	412.6	665	486.4	453.5
366	267.7	249.6	426	311.6	290.5	486	355.4	331.5	546	399.3	372.4	606	443.2	413.3	666	487.1	454.2
367	268.4	250.3	427	312.3	291.2	487	356.2	332.1	547	400.1	373.1	607	443.9	414.0	667	487.8	454.9
368	269.1	251.0	428	313.0	291.9	488	356.9	332.8	548	400.8	373.7	608	444.7	414.7	668	488.5	455.6
369	269.9	251.7	429	313.8	292.6	489	357.6	333.5	549	401.5	374.4	609	445.4	415.3	669	489.3	456.3
370	270.6	252.3	430	314.5	293.3	490	358.4	334.2	550	402.2	375.1	610	446.1	416.0	670	490.0	456.9
371	271.3	253.0	431	315.2	293.9	491	359.1	334.9	551	403.0	375.8	611	446.9	416.7	671	490.7	457.6
372	272.1	253.7	432	315.9	294.6	492	359.8	335.5	552	403.7	376.5	612	447.6	417.4	672	491.5	458.3
373	272.8	254.4	433	316.7	295.3	493	360.6	336.2	553	404.4	377.1	613	448.3	418.1	673	492.2	459.0
374	273.5	255.1	434	317.4	296.0	494	361.3	336.9	554	405.2	377.8	614	449.1	418.7	674	492.9	459.7
375	274.3	255.7	435	318.1	296.7	495	362.0	337.6	555	405.9	378.5	615	449.8	419.4	675	493.7	460.3
376	275.0	256.4	436	318.9	297.4	496	362.8	338.3	556	406.6	379.2	616	450.5	420.1	676	494.4	461.0
377	275.7	257.1	437	319.6	298.0	497	363.5	339.0	557	407.4	379.9	617	451.2	420.8	677	495.1	461.7
378	276.5	257.8	438	320.3	298.7	498	364.2	339.6	558	408.1	380.6	618	452.0	421.5	678	495.9	462.4
379	277.2	258.5	439	321.1	299.4	499	364.9	340.3	559	408.8	381.2	619	452.7	422.2	679	496.6	463.1
380	277.9	259.2	440	321.8	300.1	500	365.7	341.0	560	409.6	381.9	620	453.4	422.8	680	497.3	463.8
381	278.6	259.8	441	322.5	300.8	501	366.4	341.7	561	410.3	382.6	621	454.2	423.5	681	498.1	464.4
382	279.4	260.5	442	323.3	301.4	502	367.1	342.4	562	411.0	383.3	622	454.9	424.2	682	498.8	465.1
383	280.1	261.2	443	324.0	302.1	503	367.9	343.0	563	411.8	384.0	623	455.6	424.9	683	499.5	465.8
384	280.8	261.9	444	324.7	302.8	504	368.6	343.7	564	412.5	384.6	624	456.4	425.6	684	500.2	466.5
385	281.6	262.6	445	325.5	303.5	505	369.3	344.4	565	413.2	385.3	625	457.1	426.2	685	501.0	467.2
386	282.3	263.3	446	326.2	304.2	506	370.1	345.1	566	413.9	386.0	626	457.8	426.9	686	501.7	467.9
387	283.0	263.9	447	326.9	304.9	507	370.8	345.8	567	414.7	386.7	627	458.6	427.6	687	502.4	468.5
388	283.8	264.6	448	327.6	305.5	508	371.5	346.5	568	415.4	387.4	628	459.3	428.3	688	503.2	469.2
389	284.5	265.3	449	328.4	306.2	509	372.3	347.1	569	416.1	388.1	629	460.0	429.0	689	503.9	469.9
390	285.2	266.0	450	329.1	306.9	510	373.0	347.8	570	416.9	388.7	630	460.8	429.7	690	504.6	470.6
391	286.0	266.7	451	329.8	307.6	511	373.7	348.5	571	417.6	389.4	631	461.5	430.3	691	505.4	471.3
392	286.7	267.3	452	330.6	308.3	512	374.5	349.2	572	418.3	390.1	632	462.2	431.0	692	506.1	471.9
393	287.4	268.0	453	331.3	308.9	513	375.2	349.9	573	419.1	390.8	633	462.9	431.7	693	506.8	472.6
394	288.2	268.7	454	332.0	309.6	514	375.9	350.5	574	419.8	391.5	634	463.7	432.4	694	507.6	473.3
395	288.9	269.4	455	332.8	310.3	515	376.6	351.2	575	420.5	392.1	635	464.4	433.1	695	508.3	474.0
396	289.6	270.1	456	333.5	311.0	516	377.4	351.9	576	421.3	392.8	636	465.1	433.8	696	509.0	474.7
397	290.3	270.8	457	334.2	311.7	517	378.1	352.6	577	422.0	393.5	637	465.9	434.4	697	509.8	475.4
398	291.1	271.4	458	335.0	312.4	518	378.8	353.3	578	422.7	394.2	638	466.6	435.1	698	510.5	476.0
399	291.8	272.1	459	335.7	313.0	519	379.6	354.0	579	423.5	394.9	639	467.3	435.8	699	511.2	476.7
400	292.5	272.8	460	336.4	313.7	520	380.3	354.6	580	424.2	395.6	640	468.1	436.5	700	511.9	477.4
401	293.3	273.5	461	337.2	314.4	521	381.0	355.3	581	424.9	396.2	641	468.8	437.2	701	512.7	478.1
402	294.0	274.2	462	337.9	315.1	522	381.8	356.0	582	425.6	396.9	642	469.5	437.8	702	513.4	478.8
403	294.7	274.8	463	338.6	315.8	523	382.5	356.7	583	426.4	397.6	643	470.3	438.5	703	514.1	479.4
404	295.5	275.5	464	339.3	316.4	524	383.2	357.4	584	427.1	398.3	644	471.0	439.2	704	514.9	480.1
405	296.2	276.2	465	340.1	317.1	525	384.0	358.0	585	427.8	399.0	645	471.7	439.9	705	515.6	480.8
406	296.9	276.9	466	340.8	317.8	526	384.7	358.7	586	428.6	399.7	646	472.5	440.6	706	516.3	481.5
407	297.7	277.6	467	341.5	318.5	527	385.4	359.4	587	429.3	400.3	647	473.2	441.3	707	517.1	482.2
408	298.4	278.3	468	342.3	319.2	528	386.2	360.1	588	430.0	401.0	648	473.9	441.9	708	517.8	482.9
409	299.1	278.9	469	343.0	319.9	529	386.9	360.8	589	430.8	401.7	649	474.6	442.6	709	518.5	483.5
410	299.9	279.6	470	343.7	320.5	530	387.6	361.5	590	431.5	402.4	650	475.4	443.3	710	519.3	484.2
411	300.6	280.3	471	344.5	321.2	531	388.3	362.1	591	432.2	403.1	651	476.1	444.0	711	520.0	484.9
412	301.3	281.0	472	345.2	321.9	532	389.1	362.8	592	433.0	403.7	652	476.8	444.7	712	520.7	485.6
413	302.0	281.7	473	345.9	322.6	533	389.8	363.5	593	433.7	404.4	653	477.6	445.3	713	521.5	486.3
414	302.8	282.3	474	346.7	323.3	534	390.5	364.2	594	434.4	405.1	654	478.3	446.0	714	522.2	486.9
415	303.5	283.0	475	347.4	323.9	535	391.3	364.9	595	435.2	405.8	655	479.0	446.7	715	522.9	487.6
416	304.2	283.7	476	348.1	324.6	536	392.0	365.6	596	435.9	406.5	656	479.8	447.4	716	523.6	488.3
417	305.0	284.4	477	348.9	325.3	537	392.7	366.2	597	436.6	407.2	657	480.5	448.1	717	524.4	489.0
418	305.7	285.1	478	349.6	326.0	538	393.5	366.9	598	437.3	407.8	658	481.2	448.8	718	525.1	489.7
419	306.4	285.8	479	350.3	326.7	539	394.2	367.6	599	438.1	408.5	659	482.0	449.4	719	525.8	490.4
420	307.2	286.4	480	351.0	327.4	540	394.9	368.3	600	438.8	409.2	660	482.7	450.1	720	526.6	491.0
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	0.7	0.7	61	43.9	42.4	121	87.0	84.1	181	130.2	125.7	241	173.4	167.4	301	216.5	209.1
2	1.4	1.4	62	44.6	43.1	122	87.8	84.7	182	130.9	126.4	242	174.1	168.1	302	217.2	209.8
3	2.2	2.1	63	45.3	43.8	123	88.5	85.4	183	131.6	127.1	243	174.8	168.8	303	218.0	210.5
4	2.9	2.8	64	46.0	44.5	124	89.2	86.1	184	132.4	127.8	244	175.5	169.5	304	218.7	211.2
5	3.6	3.5	65	46.8	45.2	125	89.9	86.8	185	133.1	128.5	245	176.2	170.2	305	219.4	211.9
6	4.3	4.2	66	47.5	45.8	126	90.6	87.5	186	133.8	129.2	246	177.0	170.9	306	220.1	212.6
7	5.0	4.9	67	48.2	46.5	127	91.4	88.2	187	134.5	129.9	247	177.7	171.6	307	220.8	213.3
8	5.8	5.6	68	48.9	47.2	128	92.1	88.9	188	135.2	130.6	248	178.4	172.3	308	221.6	214.0
9	6.5	6.3	69	49.6	47.9	129	92.8	89.6	189	136.0	131.3	249	179.1	173.0	309	222.3	214.6
10	7.2	6.9	70	50.4	48.6	130	93.5	90.3	190	136.7	132.0	250	179.8	173.7	310	223.0	215.3
11	7.9	7.6	71	51.1	49.3	131	94.2	91.0	191	137.4	132.7	251	180.6	174.4	311	223.7	216.0
12	8.6	8.3	72	51.8	50.0	132	95.0	91.7	192	138.1	133.4	252	181.3	175.1	312	224.4	216.7
13	9.4	9.0	73	52.5	50.7	133	95.7	92.4	193	138.8	134.1	253	182.0	175.7	313	225.2	217.4
14	10.1	9.7	74	53.2	51.4	134	96.4	93.1	194	139.6	134.8	254	182.7	176.4	314	225.9	218.1
15	10.8	10.4	75	54.0	52.1	135	97.1	93.8	195	140.3	135.5	255	183.4	177.1	315	226.6	218.8
16	11.5	11.1	76	54.7	52.8	136	97.8	94.5	196	141.0	136.2	256	184.2	177.8	316	227.3	219.5
17	12.2	11.8	77	55.4	53.5	137	98.5	95.2	197	141.7	136.8	257	184.9	178.5	317	228.0	220.2
18	12.9	12.5	78	56.1	54.2	138	99.3	95.9	198	142.4	137.5	258	185.6	179.2	318	228.8	220.9
19	13.7	13.2	79	56.8	54.9	139	100.0	96.6	199	143.1	138.2	259	186.3	179.9	319	229.5	221.6
20	14.4	13.9	80	57.5	55.6	140	100.7	97.3	200	143.9	138.9	260	187.0	180.6	320	230.2	222.3
21	15.1	14.6	81	58.3	56.3	141	101.4	97.9	201	144.6	139.6	261	187.7	181.3	321	230.9	223.0
22	15.8	15.3	82	59.0	57.0	142	102.1	98.6	202	145.3	140.3	262	188.5	182.0	322	231.6	223.7
23	16.5	16.0	83	59.7	57.7	143	102.9	99.3	203	146.0	141.0	263	189.2	182.7	323	232.3	224.4
24	17.3	16.7	84	60.4	58.4	144	103.6	100.0	204	146.7	141.7	264	189.9	183.4	324	233.1	225.1
25	18.0	17.4	85	61.1	59.0	145	104.3	100.7	205	147.5	142.4	265	190.6	184.1	325	233.8	225.8
26	18.7	18.1	86	61.9	59.7	146	105.0	101.4	206	148.2	143.1	266	191.3	184.8	326	234.5	226.5
27	19.4	18.8	87	62.6	60.4	147	105.7	102.1	207	148.9	143.8	267	192.1	185.5	327	235.2	227.2
28	20.1	19.5	88	63.3	61.1	148	106.5	102.8	208	149.6	144.5	268	192.8	186.2	328	235.9	227.8
29	20.9	20.1	89	64.0	61.8	149	107.2	103.5	209	150.3	145.2	269	193.5	186.9	329	236.7	228.5
30	21.6	20.8	90	64.7	62.5	150	107.9	104.2	210	151.1	145.9	270	194.2	187.6	330	237.4	229.2
31	22.3	21.5	91	65.5	63.2	151	108.6	104.9	211	151.8	146.6	271	194.9	188.3	331	238.1	229.9
32	23.0	22.2	92	66.2	63.9	152	109.3	105.6	212	152.5	147.3	272	195.7	188.9	332	238.8	230.6
33	23.7	22.9	93	66.9	64.6	153	110.1	106.3	213	153.2	148.0	273	196.4	189.6	333	239.5	231.3
34	24.5	23.6	94	67.6	65.3	154	110.8	107.0	214	153.9	148.7	274	197.1	190.3	334	240.3	232.0
35	25.2	24.3	95	68.3	66.0	155	111.5	107.7	215	154.7	149.4	275	197.8	191.0	335	241.0	232.7
36	25.9	25.0	96	69.1	66.7	156	112.2	108.4	216	155.4	150.0	276	198.5	191.7	336	241.7	233.4
37	26.6	25.7	97	69.8	67.4	157	112.9	109.1	217	156.1	150.7	277	199.3	192.4	337	242.4	234.1
38	27.3	26.4	98	70.5	68.1	158	113.7	109.8	218	156.8	151.4	278	200.0	193.1	338	243.1	234.8
39	28.1	27.1	99	71.2	68.8	159	114.4	110.5	219	157.5	152.1	279	200.7	193.8	339	243.9	235.5
40	28.8	27.8	100	71.9	69.5	160	115.1	111.1	220	158.3	152.8	280	201.4	194.5	340	244.6	236.2
41	29.5	28.5	101	72.7	70.2	161	115.8	111.8	221	159.0	153.5	281	202.1	195.2	341	245.3	236.9
42	30.2	29.2	102	73.4	70.9	162	116.5	112.5	222	159.7	154.2	282	202.9	195.9	342	246.0	237.6
43	30.9	29.9	103	74.1	71.5	163	117.3	113.2	223	160.4	154.9	283	203.6	196.6	343	246.7	238.3
44	31.7	30.6	104	74.8	72.2	164	118.0	113.9	224	161.1	155.6	284	204.3	197.3	344	247.5	239.0
45	32.4	31.3	105	75.5	72.9	165	118.7	114.6	225	161.9	156.3	285	205.0	198.0	345	248.2	239.7
46	33.1	32.0	106	76.3	73.6	166	119.4	115.3	226	162.6	157.0	286	205.7	198.7	346	248.9	240.4
47	33.8	32.6	107	77.0	74.3	167	120.1	116.0	227	163.3	157.7	287	206.5	199.4	347	249.6	241.0
48	34.5	33.3	108	77.7	75.0	168	120.8	116.7	228	164.0	158.4	288	207.2	200.1	348	250.3	241.7
49	35.2	34.0	109	78.4	75.7	169	121.6	117.4	229	164.7	159.1	289	207.9	200.8	349	251.0	242.4
50	36.0	34.7	110	79.1	76.4	170	122.3	118.1	230	165.4	159.8	290	208.6	201.5	350	251.8	243.1
51	36.7	35.4	111	79.8	77.1	171	123.0	118.8	231	166.2	160.5	291	209.3	202.1	351	252.5	243.8
52	37.4	36.1	112	80.6	77.8	172	123.7	119.5	232	166.9	161.2	292	210.0	202.8	352	253.2	244.5
53	38.1	36.8	113	81.3	78.5	173	124.4	120.2	233	167.6	161.9	293	210.8	203.5	353	253.9	245.2
54	38.8	37.5	114	82.0	79.2	174	125.2	120.9	234	168.3	162.5	294	211.5	204.2	354	254.6	245.9
55	39.6	38.2	115	82.7	79.9	175	125.9	121.6	235	169.0	163.2	295	212.2	204.9	355	255.4	246.6
56	40.3	38.9	116	83.4	80.6	176	126.6	122.3	236	169.8	163.9	296	212.9	205.6	356	256.1	247.3
57	41.0	39.6	117	84.2	81.3	177	127.3	123.0	237	170.5	164.6	297	213.6	206.3	357	256.8	248.0
58	41.7	40.3	118	84.9	82.0	178	128.0	123.6	238	171.2	165.3	298	214.4	207.0	358	257.5	248.7
59	42.4	41.0	119	85.6	82.7	179	128.8	124.3	239	171.9	166.0	299	215.1	207.7	359	258.2	249.4
60	43.2	41.7	120	86.3	83.4	180	129.5	125.0	240	172.6	166.7	300	215.8	208.4	360	259.0	250.1

D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI
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D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	259.7	250.8	421	302.8	292.5	481	346.0	334.1	541	389.2	375.8	601	432.3	417.5	661	475.5	459.2
362	260.4	251.5	422	303.6	293.1	482	346.7	334.8	542	389.9	376.5	602	433.0	418.2	662	476.2	459.9
363	261.1	252.2	423	304.3	293.8	483	347.4	335.5	543	390.6	377.2	603	433.8	418.9	663	476.9	460.6
364	261.8	252.9	424	305.0	294.5	484	348.2	336.2	544	391.3	377.9	604	434.5	419.6	664	477.6	461.3
365	262.6	253.6	425	305.7	295.2	485	348.9	336.9	545	392.0	378.6	605	435.2	420.3	665	478.4	461.9
366	263.3	254.2	426	306.4	295.9	486	349.6	337.6	546	392.8	379.3	606	435.9	421.0	666	479.1	462.6
367	264.0	254.9	427	307.2	296.6	487	350.3	338.3	547	393.5	380.0	607	436.6	421.7	667	479.8	463.3
368	264.7	255.6	428	307.9	297.3	488	351.0	339.0	548	394.2	380.7	608	437.4	422.4	668	480.5	464.0
369	265.4	256.3	429	308.6	298.0	489	351.8	339.7	549	394.9	381.4	609	438.1	423.0	669	481.2	464.7
370	266.2	257.0	430	309.3	298.7	490	352.5	340.4	550	395.6	382.1	610	438.8	423.7	670	482.0	465.4
371	266.9	257.7	431	310.0	299.4	491	353.2	341.1	551	396.4	382.8	611	439.5	424.4	671	482.7	466.1
372	267.6	258.4	432	310.8	300.1	492	353.9	341.8	552	397.1	383.5	612	440.2	425.1	672	483.4	466.8
373	268.3	259.1	433	311.5	300.8	493	354.6	342.5	553	397.8	384.1	613	441.0	425.8	673	484.1	467.5
374	269.0	259.8	434	312.2	301.5	494	355.4	343.2	554	398.5	384.8	614	441.7	426.5	674	484.8	468.2
375	269.8	260.5	435	312.9	302.2	495	356.1	343.9	555	399.2	385.5	615	442.4	427.2	675	485.6	468.9
376	270.5	261.2	436	313.6	302.9	496	356.8	344.6	556	400.0	386.2	616	443.1	427.9	676	486.3	469.6
377	271.2	261.9	437	314.4	303.6	497	357.5	345.2	557	400.7	386.9	617	443.8	428.6	677	487.0	470.3
378	271.9	262.6	438	315.1	304.3	498	358.2	345.9	558	401.4	387.6	618	444.6	429.3	678	487.7	471.0
379	272.6	263.3	439	315.8	305.0	499	359.0	346.6	559	402.1	388.3	619	445.3	430.0	679	488.4	471.7
380	273.3	264.0	440	316.5	305.6	500	359.7	347.3	560	402.8	389.0	620	446.0	430.7	680	489.2	472.4
381	274.1	264.7	441	317.2	306.3	501	360.4	348.0	561	403.5	389.7	621	446.7	431.4	681	489.9	473.1
382	274.8	265.4	442	317.9	307.0	502	361.1	348.7	562	404.3	390.4	622	447.4	432.1	682	490.6	473.8
383	275.5	266.1	443	318.7	307.7	503	361.8	349.4	563	405.0	391.1	623	448.1	432.8	683	491.3	474.5
384	276.2	266.7	444	319.4	308.4	504	362.5	350.1	564	405.7	391.8	624	448.9	433.5	684	492.0	475.1
385	276.9	267.4	445	320.1	309.1	505	363.3	350.8	565	406.4	392.5	625	449.6	434.2	685	492.7	475.8
386	277.7	268.1	446	320.8	309.8	506	364.0	351.5	566	407.1	393.2	626	450.3	434.9	686	493.5	476.5
387	278.4	268.8	447	321.5	310.5	507	364.7	352.2	567	407.9	393.9	627	451.0	435.6	687	494.2	477.2
388	279.1	269.5	448	322.3	311.2	508	365.4	352.9	568	408.6	394.6	628	451.7	436.2	688	494.9	477.9
389	279.8	270.2	449	323.0	311.9	509	366.1	353.6	569	409.3	395.3	629	452.5	436.9	689	495.6	478.6
390	280.5	270.9	450	323.7	312.6	510	366.9	354.3	570	410.0	396.0	630	453.2	437.6	690	496.3	479.3
391	281.3	271.6	451	324.4	313.3	511	367.6	355.0	571	410.7	396.6	631	453.9	438.3	691	497.1	480.0
392	282.0	272.3	452	325.1	314.0	512	368.3	355.7	572	411.5	397.3	632	454.6	439.0	692	497.8	480.7
393	282.7	273.0	453	325.9	314.7	513	369.0	356.4	573	412.2	398.0	633	455.3	439.7	693	498.5	481.4
394	283.4	273.7	454	326.6	315.4	514	369.7	357.1	574	412.9	398.7	634	456.1	440.4	694	499.2	482.1
395	284.1	274.4	455	327.3	316.1	515	370.5	357.7	575	413.6	399.4	635	456.8	441.1	695	499.9	482.8
396	284.9	275.1	456	328.0	316.8	516	371.2	358.4	576	414.3	400.1	636	457.5	441.8	696	500.7	483.5
397	285.6	275.8	457	328.7	317.5	517	371.9	359.1	577	415.1	400.8	637	458.2	442.5	697	501.4	484.2
398	286.3	276.5	458	329.5	318.2	518	372.6	359.8	578	415.8	401.5	638	458.9	443.2	698	502.1	484.9
399	287.0	277.2	459	330.2	318.9	519	373.3	360.5	579	416.5	402.2	639	459.7	443.9	699	502.8	485.6
400	287.7	277.9	460	330.9	319.5	520	374.1	361.2	580	417.2	402.9	640	460.4	444.6	700	503.5	486.3
401	288.5	278.6	461	331.6	320.2	521	374.8	361.9	581	417.9	403.6	641	461.1	445.3	701	504.3	487.0
402	289.2	279.3	462	332.3	320.9	522	375.5	362.6	582	418.7	404.3	642	461.8	446.0	702	505.0	487.6
403	289.9	279.9	463	333.1	321.6	523	376.2	363.3	583	419.4	405.0	643	462.5	446.7	703	505.7	488.3
404	290.6	280.6	464	333.8	322.3	524	376.9	364.0	584	420.1	405.7	644	463.3	447.4	704	506.4	489.0
405	291.3	281.3	465	334.5	323.0	525	377.7	364.7	585	420.8	406.4	645	464.0	448.1	705	507.1	489.7
406	292.1	282.0	466	335.2	323.7	526	378.4	365.4	586	421.5	407.1	646	464.7	448.7	706	507.9	490.4
407	292.8	282.7	467	335.9	324.4	527	379.1	366.1	587	422.3	407.8	647	465.4	449.4	707	508.6	491.1
408	293.5	283.4	468	336.7	325.1	528	379.8	366.8	588	423.0	408.5	648	466.1	450.1	708	509.3	491.8
409	294.2	284.1	469	337.4	325.8	529	380.5	367.5	589	423.7	409.2	649	466.9	450.8	709	510.0	492.5
410	294.9	284.8	470	338.1	326.5	530	381.3	368.2	590	424.4	409.9	650	467.6	451.5	710	510.7	493.2
411	295.6	285.5	471	338.8	327.2	531	382.0	368.9	591	425.1	410.5	651	468.3	452.2	711	511.5	493.9
412	296.4	286.2	472	339.5	327.9	532	382.7	369.6	592	425.8	411.2	652	469.0	452.9	712	512.2	494.6
413	297.1	286.9	473	340.2	328.6	533	383.4	370.3	593	426.6	411.9	653	469.7	453.6	713	512.9	495.3
414	297.8	287.6	474	341.0	329.3	534	384.1	370.9	594	427.3	412.6	654	470.4	454.3	714	513.6	496.0
415	298.5	288.3	475	341.7	330.0	535	384.8	371.6	595	428.0	413.3	655	471.2	455.0	715	514.3	496.7
416	299.2	289.0	476	342.4	330.7	536	385.6	372.3	596	428.7	414.0	656	471.9	455.7	716	515.0	497.4
417	300.0	289.7	477	343.1	331.4	537	386.3	373.0	597	429.4	414.7	657	472.6	456.4	717	515.8	498.1
418	300.7	290.4	478	343.8	332.0	538	387.0	373.7	598	430.2	415.4	658	473.3	457.1	718	516.5	498.8
419	301.4	291.1	479	344.6	332.7	539	387.7	374.4	599	430.9	416.1	659	474.0	457.8	719	517.2	499.5
420	302.1	291.8	480	345.3	333.4	540	388.4	375.1	600	431.6	416.8	660	474.8	458.5	720	517.9	500.2

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
1	0.7	0.7	61	43.1	43.1	121	85.6	85.6	181	128.0	128.0	241	170.4	170.4	301	212.8	212.8
2	1.4	1.4	62	43.8	43.8	122	86.3	86.3	182	128.7	128.7	242	171.1	171.1	302	213.5	213.5
3	2.1	2.1	63	44.5	44.5	123	87.0	87.0	183	129.4	129.4	243	171.8	171.8	303	214.3	214.3
4	2.8	2.8	64	45.3	45.3	124	87.7	87.7	184	130.1	130.1	244	172.5	172.5	304	215.0	215.0
5	3.5	3.5	65	46.0	46.0	125	88.4	88.4	185	130.8	130.8	245	173.2	173.2	305	215.7	215.7
6	4.2	4.2	66	46.7	46.7	126	89.1	89.1	186	131.5	131.5	246	173.9	173.9	306	216.4	216.4
7	4.9	4.9	67	47.4	47.4	127	89.8	89.8	187	132.2	132.2	247	174.7	174.7	307	217.1	217.1
8	5.7	5.7	68	48.1	48.1	128	90.5	90.5	188	132.9	132.9	248	175.4	175.4	308	217.8	217.8
9	6.4	6.4	69	48.8	48.8	129	91.2	91.2	189	133.6	133.6	249	176.1	176.1	309	218.5	218.5
10	7.1	7.1	70	49.5	49.5	130	91.9	91.9	190	134.4	134.4	250	176.8	176.8	310	219.2	219.2
11	7.8	7.8	71	50.2	50.2	131	92.6	92.6	191	135.1	135.1	251	177.5	177.5	311	219.9	219.9
12	8.5	8.5	72	50.9	50.9	132	93.3	93.3	192	135.8	135.8	252	178.2	178.2	312	220.6	220.6
13	9.2	9.2	73	51.6	51.6	133	94.0	94.0	193	136.5	136.5	253	178.9	178.9	313	221.3	221.3
14	9.9	9.9	74	52.3	52.3	134	94.8	94.8	194	137.2	137.2	254	179.6	179.6	314	222.0	222.0
15	10.6	10.6	75	53.0	53.0	135	95.5	95.5	195	137.9	137.9	255	180.3	180.3	315	222.7	222.7
16	11.3	11.3	76	53.7	53.7	136	96.2	96.2	196	138.6	138.6	256	181.0	181.0	316	223.4	223.4
17	12.0	12.0	77	54.4	54.4	137	96.9	96.9	197	139.3	139.3	257	181.7	181.7	317	224.2	224.2
18	12.7	12.7	78	55.2	55.2	138	97.6	97.6	198	140.0	140.0	258	182.4	182.4	318	224.9	224.9
19	13.4	13.4	79	55.9	55.9	139	98.3	98.3	199	140.7	140.7	259	183.1	183.1	319	225.6	225.6
20	14.1	14.1	80	56.6	56.6	140	99.0	99.0	200	141.4	141.4	260	183.8	183.8	320	226.3	226.3
21	14.8	14.8	81	57.3	57.3	141	99.7	99.7	201	142.1	142.1	261	184.6	184.6	321	227.0	227.0
22	15.6	15.6	82	58.0	58.0	142	100.4	100.4	202	142.8	142.8	262	185.3	185.3	322	227.7	227.7
23	16.3	16.3	83	58.7	58.7	143	101.1	101.1	203	143.5	143.5	263	186.0	186.0	323	228.4	228.4
24	17.0	17.0	84	59.4	59.4	144	101.8	101.8	204	144.2	144.2	264	186.7	186.7	324	229.1	229.1
25	17.7	17.7	85	60.1	60.1	145	102.5	102.5	205	145.0	145.0	265	187.4	187.4	325	229.8	229.8
26	18.4	18.4	86	60.8	60.8	146	103.2	103.2	206	145.7	145.7	266	188.1	188.1	326	230.5	230.5
27	19.1	19.1	87	61.5	61.5	147	103.9	103.9	207	146.4	146.4	267	188.8	188.8	327	231.2	231.2
28	19.8	19.8	88	62.2	62.2	148	104.7	104.7	208	147.1	147.1	268	189.5	189.5	328	231.9	231.9
29	20.5	20.5	89	62.9	62.9	149	105.4	105.4	209	147.8	147.8	269	190.2	190.2	329	232.6	232.6
30	21.2	21.2	90	63.6	63.6	150	106.1	106.1	210	148.5	148.5	270	190.9	190.9	330	233.3	233.3
31	21.9	21.9	91	64.3	64.3	151	106.8	106.8	211	149.2	149.2	271	191.6	191.6	331	234.1	234.1
32	22.6	22.6	92	65.1	65.1	152	107.5	107.5	212	149.9	149.9	272	192.3	192.3	332	234.8	234.8
33	23.3	23.3	93	65.8	65.8	153	108.2	108.2	213	150.6	150.6	273	193.0	193.0	333	235.5	235.5
34	24.0	24.0	94	66.5	66.5	154	108.9	108.9	214	151.3	151.3	274	193.7	193.7	334	236.2	236.2
35	24.7	24.7	95	67.2	67.2	155	109.6	109.6	215	152.0	152.0	275	194.5	194.5	335	236.9	236.9
36	25.5	25.5	96	67.9	67.9	156	110.3	110.3	216	152.7	152.7	276	195.2	195.2	336	237.6	237.6
37	26.2	26.2	97	68.6	68.6	157	111.0	111.0	217	153.4	153.4	277	195.9	195.9	337	238.3	238.3
38	26.9	26.9	98	69.3	69.3	158	111.7	111.7	218	154.1	154.1	278	196.6	196.6	338	239.0	239.0
39	27.6	27.6	99	70.0	70.0	159	112.4	112.4	219	154.9	154.9	279	197.3	197.3	339	239.7	239.7
40	28.3	28.3	100	70.7	70.7	160	113.1	113.1	220	155.6	155.6	280	198.0	198.0	340	240.4	240.4
41	29.0	29.0	101	71.4	71.4	161	113.8	113.8	221	156.3	156.3	281	198.7	198.7	341	241.1	241.1
42	29.7	29.7	102	72.1	72.1	162	114.6	114.6	222	157.0	157.0	282	199.4	199.4	342	241.8	241.8
43	30.4	30.4	103	72.8	72.8	163	115.3	115.3	223	157.7	157.7	283	200.1	200.1	343	242.5	242.5
44	31.1	31.1	104	73.5	73.5	164	116.0	116.0	224	158.4	158.4	284	200.8	200.8	344	243.2	243.2
45	31.8	31.8	105	74.2	74.2	165	116.7	116.7	225	159.1	159.1	285	201.5	201.5	345	244.0	244.0
46	32.5	32.5	106	75.0	75.0	166	117.4	117.4	226	159.8	159.8	286	202.2	202.2	346	244.7	244.7
47	33.2	33.2	107	75.7	75.7	167	118.1	118.1	227	160.5	160.5	287	202.9	202.9	347	245.4	245.4
48	33.9	33.9	108	76.4	76.4	168	118.8	118.8	228	161.2	161.2	288	203.6	203.6	348	246.1	246.1
49	34.6	34.6	109	77.1	77.1	169	119.5	119.5	229	161.9	161.9	289	204.4	204.4	349	246.8	246.8
50	35.4	35.4	110	77.8	77.8	170	120.2	120.2	230	162.6	162.6	290	205.1	205.1	350	247.5	247.5
51	36.1	36.1	111	78.5	78.5	171	120.9	120.9	231	163.3	163.3	291	205.8	205.8	351	248.2	248.2
52	36.8	36.8	112	79.2	79.2	172	121.6	121.6	232	164.0	164.0	292	206.5	206.5	352	248.9	248.9
53	37.5	37.5	113	79.9	79.9	173	122.3	122.3	233	164.8	164.8	293	207.2	207.2	353	249.6	249.6
54	38.2	38.2	114	80.6	80.6	174	123.0	123.0	234	165.5	165.5	294	207.9	207.9	354	250.3	250.3
55	38.9	38.9	115	81.3	81.3	175	123.7	123.7	235	166.2	166.2	295	208.6	208.6	355	251.0	251.0
56	39.6	39.6	116	82.0	82.0	176	124.5	124.5	236	166.9	166.9	296	209.3	209.3	356	251.7	251.7
57	40.3	40.3	117	82.7	82.7	177	125.2	125.2	237	167.6	167.6	297	210.0	210.0	357	252.4	252.4
58	41.0	41.0	118	83.4	83.4	178	125.9	125.9	238	168.3	168.3	298	210.7	210.7	358	253.1	253.1
59	41.7	41.7	119	84.1	84.1	179	126.6	126.6	239	169.0	169.0	299	211.4	211.4	359	253.9	253.9
60	42.4	42.4	120	84.9	84.9	180	127.3	127.3	240	169.7	169.7	300	212.1	212.1	360	254.6	254.6
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep	D	ΔI	Dep
361	255.3	255.3	421	297.7	297.7	481	340.1	340.1	541	382.5	382.5	601	425.0	425.0	661	467.4	467.4
362	256.0	256.0	422	298.4	298.4	482	340.8	340.8	542	383.3	383.3	602	425.7	425.7	662	468.1	468.1
363	256.7	256.7	423	299.1	299.1	483	341.5	341.5	543	384.0	384.0	603	426.4	426.4	663	468.8	468.8
364	257.4	257.4	424	299.8	299.8	484	342.2	342.2	544	384.7	384.7	604	427.1	427.1	664	469.5	469.5
365	258.1	258.1	425	300.5	300.5	485	342.9	342.9	545	385.4	385.4	605	427.8	427.8	665	470.2	470.2
366	258.8	258.8	426	301.2	301.2	486	343.7	343.7	546	386.1	386.1	606	428.5	428.5	666	470.9	470.9
367	259.5	259.5	427	301.9	301.9	487	344.4	344.4	547	386.8	386.8	607	429.2	429.2	667	471.6	471.6
368	260.2	260.2	428	302.6	302.6	488	345.1	345.1	548	387.5	387.5	608	429.9	429.9	668	472.3	472.3
369	260.9	260.9	429	303.3	303.3	489	345.8	345.8	549	388.2	388.2	609	430.6	430.6	669	473.1	473.1
370	261.6	261.6	430	304.1	304.1	490	346.5	346.5	550	388.9	388.9	610	431.3	431.3	670	473.8	473.8
371	262.3	262.3	431	304.8	304.8	491	347.2	347.2	551	389.6	389.6	611	432.0	432.0	671	474.5	474.5
372	263.0	263.0	432	305.5	305.5	492	347.9	347.9	552	390.3	390.3	612	432.7	432.7	672	475.2	475.2
373	263.8	263.8	433	306.2	306.2	493	348.6	348.6	553	391.0	391.0	613	433.5	433.5	673	475.9	475.9
374	264.5	264.5	434	306.9	306.9	494	349.3	349.3	554	391.7	391.7	614	434.2	434.2	674	476.6	476.6
375	265.2	265.2	435	307.6	307.6	495	350.0	350.0	555	392.4	392.4	615	434.9	434.9	675	477.3	477.3
376	265.9	265.9	436	308.3	308.3	496	350.7	350.7	556	393.2	393.2	616	435.6	435.6	676	478.0	478.0
377	266.6	266.6	437	309.0	309.0	497	351.4	351.4	557	393.9	393.9	617	436.3	436.3	677	478.7	478.7
378	267.3	267.3	438	309.7	309.7	498	352.1	352.1	558	394.6	394.6	618	437.0	437.0	678	479.4	479.4
379	268.0	268.0	439	310.4	310.4	499	352.8	352.8	559	395.3	395.3	619	437.7	437.7	679	480.1	480.1
380	268.7	268.7	440	311.1	311.1	500	353.6	353.6	560	396.0	396.0	620	438.4	438.4	680	480.8	480.8
381	269.4	269.4	441	311.8	311.8	501	354.3	354.3	561	396.7	396.7	621	439.1	439.1	681	481.5	481.5
382	270.1	270.1	442	312.5	312.5	502	355.0	355.0	562	397.4	397.4	622	439.8	439.8	682	482.2	482.2
383	270.8	270.8	443	313.2	313.2	503	355.7	355.7	563	398.1	398.1	623	440.5	440.5	683	483.0	483.0
384	271.5	271.5	444	314.0	314.0	504	356.4	356.4	564	398.8	398.8	624	441.2	441.2	684	483.7	483.7
385	272.2	272.2	445	314.7	314.7	505	357.1	357.1	565	399.5	399.5	625	441.9	441.9	685	484.4	484.4
386	272.9	272.9	446	315.4	315.4	506	357.8	357.8	566	400.2	400.2	626	442.6	442.6	686	485.1	485.1
387	273.7	273.7	447	316.1	316.1	507	358.5	358.5	567	400.9	400.9	627	443.4	443.4	687	485.8	485.8
388	274.4	274.4	448	316.8	316.8	508	359.2	359.2	568	401.6	401.6	628	444.1	444.1	688	486.5	486.5
389	275.1	275.1	449	317.5	317.5	509	359.9	359.9	569	402.3	402.3	629	444.8	444.8	689	487.2	487.2
390	275.8	275.8	450	318.2	318.2	510	360.6	360.6	570	403.1	403.1	630	445.5	445.5	690	487.9	487.9
391	276.5	276.5	451	318.9	318.9	511	361.3	361.3	571	403.8	403.8	631	446.2	446.2	691	488.6	488.6
392	277.2	277.2	452	319.6	319.6	512	362.0	362.0	572	404.5	404.5	632	446.9	446.9	692	489.3	489.3
393	277.9	277.9	453	320.3	320.3	513	362.7	362.7	573	405.2	405.2	633	447.6	447.6	693	490.0	490.0
394	278.6	278.6	454	321.0	321.0	514	363.5	363.5	574	405.9	405.9	634	448.3	448.3	694	490.7	490.7
395	279.3	279.3	455	321.7	321.7	515	364.2	364.2	575	406.6	406.6	635	449.0	449.0	695	491.4	491.4
396	280.0	280.0	456	322.4	322.4	516	364.9	364.9	576	407.3	407.3	636	449.7	449.7	696	492.1	492.1
397	280.7	280.7	457	323.1	323.1	517	365.6	365.6	577	408.0	408.0	637	450.4	450.4	697	492.9	492.9
398	281.4	281.4	458	323.9	323.9	518	366.3	366.3	578	408.7	408.7	638	451.1	451.1	698	493.6	493.6
399	282.1	282.1	459	324.6	324.6	519	367.0	367.0	579	409.4	409.4	639	451.8	451.8	699	494.3	494.3
400	282.8	282.8	460	325.3	325.3	520	367.7	367.7	580	410.1	410.1	640	452.5	452.5	700	495.0	495.0
401	283.5	283.5	461	326.0	326.0	521	368.4	368.4	581	410.8	410.8	641	453.3	453.3	701	495.7	495.7
402	284.3	284.3	462	326.7	326.7	522	369.1	369.1	582	411.5	411.5	642	454.0	454.0	702	496.4	496.4
403	285.0	285.0	463	327.4	327.4	523	369.8	369.8	583	412.2	412.2	643	454.7	454.7	703	497.1	497.1
404	285.7	285.7	464	328.1	328.1	524	370.5	370.5	584	413.0	413.0	644	455.4	455.4	704	497.8	497.8
405	286.4	286.4	465	328.8	328.8	525	371.2	371.2	585	413.7	413.7	645	456.1	456.1	705	498.5	498.5
406	287.1	287.1	466	329.5	329.5	526	371.9	371.9	586	414.4	414.4	646	456.8	456.8	706	499.2	499.2
407	287.8	287.8	467	330.2	330.2	527	372.6	372.6	587	415.1	415.1	647	457.5	457.5	707	499.9	499.9
408	288.5	288.5	468	330.9	330.9	528	373.4	373.4	588	415.8	415.8	648	458.2	458.2	708	500.6	500.6
409	289.2	289.2	469	331.6	331.6	529	374.1	374.1	589	416.5	416.5	649	458.9	458.9	709	501.3	501.3
410	289.9	289.9	470	332.3	332.3	530	374.8	374.8	590	417.2	417.2	650	459.6	459.6	710	502.0	502.0
411	290.6	290.6	471	333.0	333.0	531	375.5	375.5	591	417.9	417.9	651	460.3	460.3	711	502.8	502.8
412	291.3	291.3	472	333.8	333.8	532	376.2	376.2	592	418.6	418.6	652	461.0	461.0	712	503.5	503.5
413	292.0	292.0	473	334.5	334.5	533	376.9	376.9	593	419.3	419.3	653	461.7	461.7	713	504.2	504.2
414	292.7	292.7	474	335.2	335.2	534	377.6	377.6	594	420.0	420.0	654	462.4	462.4	714	504.9	504.9
415	293.4	293.4	475	335.9	335.9	535	378.3	378.3	595	420.7	420.7	655	463.2	463.2	715	505.6	505.6
416	294.2	294.2	476	336.6	336.6	536	379.0	379.0	596	421.4	421.4	656	463.9	463.9	716	506.3	506.3
417	294.9	294.9	477	337.3	337.3	537	379.7	379.7	597	422.1	422.1	657	464.6	464.6	717	507.0	507.0
418	295.6	295.6	478	338.0	338.0	538	380.4	380.4	598	422.8	422.8	658	465.3	465.3	718	507.7	507.7
419	296.3	296.3	479	338.7	338.7	539	381.1	381.1	599	423.6	423.6	659	466.0	466.0	719	508.4	508.4
420	297.0	297.0	480	339.4	339.4	540	381.8	381.8	600	424.3	424.3	660	466.7	466.7	720	509.1	509.1
D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI	D	Dep	ΔI

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	0° 0' 0	0	0° 0' 0	1506	0° 0' 0	6247	0° 0' 0	15051	0° 0' 0	30103	0° 0' 0	58700	60
1	0° 0' 0	0	0° 0' 0	1557	0° 0' 0	6357	0° 0' 0	15242	0° 0' 0	30433	0° 0' 0	59414	59
2	0° 0' 0	2	0° 0' 0	1609	0° 0' 0	6468	0° 0' 0	15434	0° 0' 0	30766	0° 0' 0	60140	58
3	0° 0' 0	4	0° 0' 0	1662	0° 0' 0	6580	0° 0' 0	15627	0° 0' 0	31103	0° 0' 0	60879	57
4	0° 0' 0	7	0° 0' 0	1716	0° 0' 0	6693	0° 0' 0	15823	0° 0' 0	31443	0° 0' 0	61632	56
5	0° 0' 0	10	0° 0' 0	1771	0° 0' 0	6808	0° 0' 0	16020	0° 0' 0	31787	0° 0' 0	62400	55
6	0° 0' 0	15	0° 0' 0	1826	0° 0' 0	6923	0° 0' 0	16219	0° 0' 0	32134	0° 0' 0	63181	54
7	0° 0' 0	20	0° 0' 0	1883	0° 0' 0	7040	0° 0' 0	16419	0° 0' 0	32485	0° 0' 0	63978	53
8	0° 0' 0	26	0° 0' 0	1940	0° 0' 0	7158	0° 0' 0	16622	0° 0' 0	32839	0° 0' 0	64791	52
9	0° 0' 0	33	0° 0' 0	1999	0° 0' 0	7277	0° 0' 0	16826	0° 0' 0	33197	0° 0' 0	65620	51
10	0° 0' 0	41	0° 0' 0	2058	0° 0' 0	7397	0° 0' 0	17032	0° 0' 0	33559	0° 0' 0	66466	50
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12	0° 0' 0	60	0° 0' 0	2179	0° 0' 0	7641	0° 0' 0	17449	0° 0' 0	34295	0° 0' 0	68212	48
13	0° 0' 0	70	0° 0' 0	2241	0° 0' 0	7765	0° 0' 0	17660	0° 0' 0	34669	0° 0' 0	69113	47
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15	0° 0' 0	93	0° 0' 0	2368	0° 0' 0	8015	0° 0' 0	18089	0° 0' 0	35429	0° 0' 0	70976	45
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24	0° 0' 0	239	0° 0' 0	2985	0° 0' 0	9204	0° 0' 0	20113	0° 0' 0	39069	0° 0' 0	80567	36
25	0° 0' 0	259	0° 0' 0	3058	0° 0' 0	9343	0° 0' 0	20348	0° 0' 0	39497	0° 0' 0	81780	35
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31	0° 0' 0	399	0° 0' 0	3517	0° 0' 0	10199	0° 0' 0	21803	0° 0' 0	42176	0° 0' 0	89894	29
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35	0° 0' 0	508	0° 0' 0	3843	0° 0' 0	10797	0° 0' 0	22819	0° 0' 0	44077	0° 0' 0	96310	25
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44	0° 0' 0	805	0° 0' 0	4634	0° 0' 0	12222	0° 0' 0	25244	0° 0' 0	48736	0° 0' 0	115642	16
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	11 H	10 H	9 H	8 H	7 H	6 H	m						

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	11 H	10 H	9 H	8 H	7 H	6 H	m						

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30	30:3	373	32:5	3438	37:8	10052	49:3	21552	18:4	41707	49:5	88334	30
31	0°30:3	399	0°32:5	3517	0°37:9	10198	0°49:5	21800	1°19:2	42167	3°57:3	89789	29
32	30:3	425	32:6	3597	38:0	10346	49:8	22051	20:1	42633	4 5:8	91298	28
33	30:3	452	32:6	3677	38:2	10495	50:1	22303	20:9	43105	14:8	92865	27
34	30:3	480	32:7	3760	38:3	10645	50:4	22558	21:8	43582	24:5	94492	26
35	30:4	508	32:8	3842	38:5	10796	50:8	22815	22:8	44067	35:0	96178	25
36	0°30:4	538	0°32:8	3926	0°38:6	10949	0°51:0	23075	1°23:7	44557	4°46:3	97933	24
37	30:4	568	32:9	4011	38:7	11103	51:4	23337	24:7	45054	58:7	99756	23
38	30:4	600	33:0	4097	38:9	11258	51:7	23601	25:6	45554	5 12:2	101670	22
39	30:4	632	33:0	4184	39:0	11415	52:0	23868	26:7	46064	26:9	103663	21
40	30:5	665	33:1	4271	39:2	11574	52:3	24137	27:7	46581	43:1	105754	20
41	0°30:5	699	0°33:2	4360	0°39:3	11733	0°52:6	24410	1°28:8	47105	6° 1:0	107950	19
42	30:5	733	33:2	4450	39:5	11894	53:0	24684	29:9	47636	20:8	110264	18
43	30:5	769	33:3	4541	39:6	12057	53:3	24961	31:0	48175	43:0	112717	17
44	30:5	805	33:4	4633	39:7	12221	53:6	25240	32:1	48721	7 7:9	115300	16
45	30:5	843	33:5	4726	39:9	12386	54:0	25522	33:3	49275	36:0	118056	15
46	0°30:6	881	0°33:5	4820	0°40:0	12553	0°54:4	25807	1°34:5	49838	8° 8:1	121001	14
47	30:6	920	33:6	4915	40:2	12722	54:7	26094	35:8	50408	45:1	124139	13
48	30:7	960	33:7	5011	40:4	12892	55:1	26385	37:1	50986	9 28:0	127522	12
49	30:7	1000	33:7	5108	40:5	13063	55:4	26679	38:4	51574	10 18:5	131191	11
50	30:7	1042	33:8	5206	40:7	13236	55:8	26974	39:7	52170	11 18:8	135173	10
51	0°30:8	1084	0°33:9	5305	0°40:8	13410	0°56:2	27273	1°41:1	52775	12°31:9	139557	9
52	30:8	1128	34:0	5406	41:0	13586	56:6	27575	42:6	53390	14 2:3	144400	8
53	30:8	1172	34:1	5507	41:2	13764	57:0	27879	44:1	54014	15 56:9	149812	7
54	30:9	1217	34:1	5609	41:4	13943	57:4	28187	45:6	54648	18 26:2	155952	6
55	30:9	1263	34:2	5713	41:5	14123	57:8	28498	47:2	55293	21 48:2	162890	5
56	0°30:9	1310	0°34:3	5817	0°41:7	14306	0°58:2	28812	1°48:8	55946	26°34:0	170958	4
57	31:0	1357	34:4	5923	41:9	14489	58:7	29129	50:5	56610	33 41:5	180390	3
58	31:0	1406	34:5	6029	42:0	14675	59:1	29449	52:2	57288	45 0:1	190892	2
59	31:0	1455	34:6	6137	42:2	14862	59:5	29772	54:0	57976	63 26:1	201124	1
60	31:0	1506	34:6	6246	42:4	15050	1 0:0	30099	55:9	58676	90 0:0	205916	0
	11 H		10 H		9 H		8 H		7 H		6 H		m

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	0°45-0	0	0°46-6	1506	0°52-0	6246	1° 3-6	15048	1°30-0	30092	2°53-7	58649	60
1	45-0		46-6	1557	52-1	6356	3-9	15238	30-7	30421	56-4	59360	59
2	45-0	2	46-7	1609	52-2	6467	4-2	15430	31-4	30755	59-6	60085	58
3	45-0	4	46-8	1662	52-4	6579	4-5	15624	32-1	31091	3 2-7	60822	57
4	45-0	7	46-8	1715	52-5	6692	4-8	15819	32-8	31431	5-8	61573	56
5	45-0	10	46-9	1770	52-7	6806	5-1	16016	33-5	31774	9-1	62338	55
6	0°45-0	15	0°46-9	1826	0°52-8	6922	1° 5-4	16215	1°34-3	32121	3°12-6	63117	54
7	45-0	20	47-0	1882	52-9	7039	5-7	16415	35-0	32472	16-1	63911	53
8	45-0	26	47-1	1940	53-1	7157	6-0	16617	35-8	32826	19-8	64721	52
9	45-0	33	47-1	1998	53-2	7275	6-3	16821	36-6	33184	23-7	65548	51
10	45-0	41	47-2	2058	53-3	7396	6-6	17027	37-4	33546	27-7	66391	50
11	0°45-1	50	0°47-2	2118	0°53-5	7517	1° 6-8	17235	1°38-3	33911	3°31-8	67251	49
12	45-1	60	47-3	2179	53-7	7639	7-2	17444	39-1	34281	36-1	68130	48
13	45-1	70	47-4	2241	53-8	7763	7-6	17656	40-0	34655	40-7	69027	47
14	45-1	81	47-5	2304	53-9	7888	7-9	17869	40-8	35032	45-4	69944	46
15	45-1	93	47-5	2368	54-1	8014	8-3	18084	41-7	35414	50-3	70882	45
16	0°45-1	106	0°47-6	2433	0°54-3	8141	1° 8-6	18301	1°42-6	35800	3°55-5	71842	44
17	45-1	120	47-6	2498	54-4	8269	8-9	18520	43-6	36190	4 0-9	72824	43
18	45-1	134	47-7	2565	54-6	8399	9-3	18740	44-5	36585	6-5	73829	42
19	45-2	149	47-8	2632	54-8	8530	9-6	18963	45-5	36985	12-4	74859	41
20	45-2	166	47-9	2701	54-9	8662	10-0	19188	46-5	37388	18-7	75914	40
21	0°45-2	183	0°48-0	2770	0°55-1	8795	1°10-4	19415	1°47-5	37797	4°25-2	76995	39
22	45-2	200	48-0	2841	55-3	8930	10-7	19644	48-5	38209	32-1	78107	38
23	45-2	219	48-1	2912	55-4	9065	11-1	19874	49-5	38627	39-3	79247	37
24	45-2	239	48-2	2984	55-6	9202	11-5	20107	50-6	39050	47-0	80419	36
25	45-3	259	48-3	3057	55-8	9341	11-9	20342	51-7	39478	55-1	81623	35
26	0°45-3	280	0°48-4	3131	0°56-0	9480	1°12-3	20579	1°52-8	39910	5° 3-7	82864	34
27	45-3	302	48-5	3207	56-2	9621	12-7	20818	54-0	40348	12-8	84140	33
28	45-4	325	48-5	3283	56-3	9763	13-1	21060	55-1	40791	22-4	85458	32
29	45-4	349	48-6	3360	56-5	9906	13-5	21303	56-3	41240	32-7	86815	31
30	45-4	373	48-7	3438	56-7	10051	13-9	21549	57-0	41694	43-6	88217	30
31	0°45-4	399	0°48-8	3517	0°56-9	10197	1°14-3	21797	1°58-5	42154	5°55-3	89667	29
32	45-5	425	48-9	3597	57-1	10344	14-8	22047	2 0-0	42620	6 7-9	91164	28
33	45-5	452	49-0	3677	57-3	10493	15-2	22300	1-4	43091	21-3	92718	27
34	45-5	480	49-1	3760	57-5	10643	15-6	22554	2-7	43568	35-8	94329	26
35	45-5	508	49-2	3842	57-7	10795	16-1	22812	4-1	44052	51-4	96002	25
36	0°45-6	538	0°49-3	3926	0°57-9	10947	1°16-5	23071	2° 5-5	44542	7° 8-3	97741	24
37	45-6	568	49-4	4011	58-1	11102	17-0	23333	7-0	45038	26-7	99554	23
38	45-6	600	49-5	4097	58-3	11257	17-5	23597	8-4	45541	46-6	101447	22
39	45-7	632	49-5	4184	58-5	11414	17-9	23864	10-0	46050	8 8-5	103422	21
40	45-7	665	49-6	4271	58-7	11572	18-4	24133	11-5	46567	32-5	105489	20
41	0°45-7	699	0°49-7	4360	0°59-0	11732	1°18-9	24405	2°13-1	47090	8°57-8	107659	19
42	45-8	733	49-9	4450	59-2	11893	19-4	24679	14-7	47621	9 28-3	109941	18
43	45-8	769	50-0	4541	59-4	12055	19-9	24956	16-4	48159	10 1-1	112350	17
44	45-9	805	50-1	4633	59-6	12219	20-5	25236	18-2	48705	37-7	114895	16
45	45-9	843	50-2	4726	59-9	12385	21-0	25518	19-9	49258	11 19-1	117591	15
46	0°45-9	881	0°50-3	4820	1° 0-1	12551	1°21-5	25802	2°21-7	49819	12° 6-2	120462	14
47	46-0	920	50-4	4915	0-3	12720	22-1	26090	23-6	50388	13 0-1	123524	13
48	46-0	960	50-5	5011	0-5	12890	22-6	26380	25-5	50967	14 2-6	126806	12
49	46-0	1000	50-6	5108	0-8	13061	23-2	26673	27-5	51553	15 15-7	130346	11
50	46-1	1042	50-8	5206	1-0	13234	23-7	26969	29-6	52148	16 42-3	134163	10
51	0°46-1	1084	0°50-9	5305	1° 1-3	13408	1°24-3	27268	2°31-7	52753	18°26-4	138314	9
52	46-2	1128	51-0	5406	1-5	13584	24-9	27570	33-8	53367	20 33-7	142866	8
53	46-2	1172	51-1	5507	1-8	13761	25-4	27874	36-0	53990	23 12-2	147856	7
54	46-3	1217	51-2	5609	2-0	13940	26-1	28181	38-3	54623	26 34-1	153368	6
55	46-3	1263	51-3	5712	2-3	14121	26-7	28492	40-7	55267	30 58-0	159448	5
56	0°46-4	1310	0°51-4	5817	1° 2-6	14303	1°27-4	28806	2°43-1	55921	36°52-4	166125	4
57	46-4	1357	51-6	5923	2-8	14487	28-0	29122	45-7	56586	45 0-1	173261	3
58	46-5	1406	51-7	6029	3-1	14672	28-6	29442	48-3	57262	56 18-7	180337	2
59	46-5	1455	51-8	6137	3-4	14862	29-3	29766	51-0	57949	71 34-0	186051	1
60	46-6	1506	52-0	6246	3-6	15048	30-0	30092	53-7	58649	90 0-0	188307	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H			1 H			2 H			3 H			4 H			5 H			
0	1° 0·0	0	1° 2·1	1506	1° 9·3	6245	1°24·8	15045	2° 0·0	30083	3°51·5	58606	60						
1	0·0	0	2·2	1557	9·5	6355	25·2	15235	0·9	30413	55·3	59318	59						
2	0·0	2	2·3	1609	9·6	6466	25·6	15427	1·8	30746	59·3	60042	58						
3	0·0	4	2·3	1662	9·8	6578	26·0	15621	2·7	31082	4 3·4	60775	57						
4	0·0	7	2·4	1715	10·0	6691	26·4	15817	3·7	31423	7·6	61526	56						
5	0·0	10	2·5	1770	10·2	6806	26·8	16014	4·7	31763	12·0	62292	55						
6	1° 0·0	15	1° 2·6	1825	1°10·4	6921	1°27·2	16212	2° 5·7	32110	4°16·6	63066	54						
7	0·0	20	2·6	1882	10·6	7038	27·6	16411	6·7	32461	21·3	63861	53						
8	0·0	26	2·7	1939	10·8	7156	28·0	16613	7·8	32815	26·2	64666	52						
9	0·0	33	2·8	1998	10·9	7275	28·4	16817	8·8	33173	31·3	65492	51						
10	0·1	41	2·9	2057	11·1	7395	28·8	17023	9·9	33535	36·6	66330	50						
11	1° 0·1	50	1° 3·0	2117	1°11·3	7516	1°29·2	17230	2°11·0	33901	4°42·2	67191	49						
12	0·1	60	3·1	2178	11·5	7639	29·7	17441	12·1	34271	47·9	68064	48						
13	0·1	70	3·2	2240	11·7	7763	30·1	17652	13·3	34644	54·0	68962	47						
14	0·1	81	3·3	2303	12·0	7887	30·5	17865	14·4	35022	5 0·2	69874	46						
15	0·1	93	3·4	2367	12·2	8012	31·0	18080	15·6	35403	6·8	70811	45						
16	1° 0·1	106	1° 3·5	2432	1°12·4	8139	1°31·4	18297	2°16·8	35787	5°13·6	71765	44						
17	0·2	120	3·6	2498	12·6	8267	31·9	18516	18·0	36177	20·8	72744	43						
18	0·2	134	3·7	2564	12·8	8397	32·4	18737	19·3	36572	28·3	73747	42						
19	0·2	149	3·8	2632	13·0	8528	32·8	18959	20·6	36971	36·1	74770	41						
20	0·2	166	3·8	2700	13·2	8660	33·3	19184	21·9	37375	44·4	75819	40						
21	1° 0·2	183	1° 4·0	2770	1°13·5	8793	1°33·8	19411	2°23·2	37783	5°53·1	76899	39						
22	0·3	200	4·1	2840	13·7	8927	34·3	19640	24·6	38197	6 2·2	78006	38						
23	0·3	219	4·2	2912	13·9	9063	34·8	19870	26·0	38612	11·8	79140	37						
24	0·3	239	4·3	2984	14·2	9200	35·3	20103	27·4	39034	22·0	80304	36						
25	0·3	259	4·4	3057	14·4	9339	35·8	20337	28·9	39462	32·7	81502	35						
26	1° 0·4	280	1° 4·5	3131	1°14·6	9479	1°36·4	20574	2°30·4	39895	6°44·1	82735	34						
27	0·4	302	4·6	3206	14·9	9620	36·9	20813	31·9	40333	56·1	84005	33						
28	0·5	325	4·7	3282	15·1	9762	37·4	21055	33·5	40776	7 8·9	85313	32						
29	0·5	349	4·8	3359	15·4	9905	38·0	21298	35·1	41225	22·5	86664	31						
30	0·5	373	4·9	3437	15·6	10050	38·5	21544	36·7	41677	37·0	88048	30						
31	1° 0·6	399	1° 5·1	3516	1°15·9	10196	1°39·1	21792	2°38·4	42137	7°52·5	89490	29						
32	0·6	425	5·2	3596	16·1	10343	39·7	22042	40·1	42602	8 9·1	90981	28						
33	0·6	452	5·3	3677	16·4	10492	40·3	22294	41·8	43073	26·8	92516	27						
34	0·7	480	5·4	3759	16·7	10642	40·9	22549	43·6	43550	45·9	94107	26						
35	0·7	508	5·6	3842	16·9	10793	41·5	22806	45·4	44035	9 6·5	95766	25						
36	1° 0·7	538	1° 5·7	3926	1°17·2	10946	1°42·1	23066	2°47·3	44521	9°28·8	97480	24						
37	0·8	568	5·8	4011	17·5	11100	42·7	23328	49·2	45017	53·0	99271	23						
38	0·8	600	5·9	4097	17·8	11255	43·3	23592	51·2	45520	10 19·3	101140	22						
39	0·9	632	6·1	4184	18·1	11412	43·9	23859	53·2	46030	48·0	103088	21						
40	0·9	665	6·2	4271	18·3	11570	44·6	24128	55·3	46546	11 19·5	105127	20						
41	1° 1·0	699	1° 6·3	4360	1°18·6	11730	1°45·2	24399	2°57·4	47067	11°54·2	107260	19						
42	1·0	733	6·5	4450	18·9	11891	45·9	24673	59·6	47597	12 32·6	109489	18						
43	1·1	769	6·6	4540	19·2	12052	46·6	24950	3 1·9	48135	13 15·2	111845	17						
44	1·1	805	6·8	4633	19·5	12216	47·3	25229	4·1	48680	14 2·9	114325	16						
45	1·2	843	6·9	4725	19·8	12382	48·0	25511	6·5	49235	56·6	116928	15						
46	1° 1·2	881	1° 7·0	4819	1°20·1	12549	1°48·7	25796	3° 8·9	49796	15°57·4	119731	14						
47	1·3	920	7·2	4914	20·4	12718	49·4	26083	11·4	50364	17 6·8	122690	13						
48	1·3	960	7·3	5010	20·7	12887	50·1	26374	14·0	50939	18 26·7	125843	12						
49	1·4	1000	7·5	5107	21·1	13059	50·9	26667	16·6	51526	19 59·5	129194	11						
50	1·5	1042	7·6	5205	21·4	13231	51·6	26963	19·3	52122	21 48·6	132826	10						
51	1° 1·5	1084	1° 7·8	5304	1°21·7	13406	1°52·4	27261	3°22·1	52722	23°58·2	136644	9						
52	1·6	1128	8·0	5405	22·0	13581	53·2	27563	25·0	53336	26 34·3	140863	8						
53	1·6	1172	8·1	5506	22·4	13759	54·0	27867	28·0	53960	29 45·1	145394	7						
54	1·7	1217	8·3	5608	22·7	13938	54·8	28175	31·0	54589	33 41·7	150212	6						
55	1·8	1263	8·4	5712	23·1	14118	55·6	28483	34·2	55231	38 39·9	155361	5						
56	1° 1·8	1310	1° 8·6	5816	1°23·4	14300	1°56·5	28797	3°37·4	55887	45° 0·3	160741	4						
57	1·9	1357	8·8	5922	23·8	14484	57·3	29114	40·8	56547	53 8·0	166125	3						
58	2·0	1406	8·9	6028	24·1	14669	58·2	29434	44·2	57224	63 26·3	170958	2						
59	2·1	1455	9·1	6136	24·5	14856	59·1	29757	47·8	57912	75 57·9	174531	1						
60	2·1	1506	9·3	6245	24·8	15045	2 0·0	30083	51·5	58606	90 0·0	175814	0						
	11 H	10 H	9 H	8 H	7 H	6 H	m												

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	1°15:0	0	1°17:6	1505	1°26:6	6243	1°46:0	15041	2°29:9	30072	4°49:1	58557	60
1	15:0	0	17:8	1556	26:8	6353	46:5	15231	31:1	30401	53:9	59265	59
2	15:0	2	17:8	1608	27:0	6464	47:0	15423	32:2	30734	58:8	59987	58
3	15:0	4	17:9	1661	27:3	6576	47:5	15617	33:4	31070	5 3:9	60720	57
4	15:0	7	18:0	1715	27:5	6690	47:9	15812	34:6	31410	9:2	61466	56
5	15:0	10	18:1	1770	27:7	6804	48:4	16009	35:8	31752	14:7	62228	55
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	11 H	10 H	9 H	8 H	7 H	6 H	m						

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2	15'0	2	20'1	1606	36'7	6456	12'5	15399	33'7	30662	55'1	59646	58
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4	15'0	7	20'4	1713	37'5	6681	14'2	15787	38'0	31334	13'5	61101	56
5	15'0	10	20'6	1768	37'9	6796	15'1	15983	40'2	31675	23'2	61848	55
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9	15'1	33	21'4	1996	39'6	7264	18'8	16787	49'4	33077	10 5'7	64977	51
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12	15'2	60	21'9	2176	40'9	7627	21'6	17408	56'8	34167	42'1	67484	48
13	15'2	70	22'2	2238	41'4	7750	22'6	17618	59'3	34538	55'2	68353	47
14	15'3	81	22'3	2301	41'9	7875	23'6	17831	5 1'9	34913	11 8'9	69240	46
15	15'3	93	22'6	2364	42'3	8000	24'6	18045	4'6	35292	23'2	70147	45
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18	15'4	134	23'2	2561	43'8	8385	27'7	18700	12'9	36455	12 10'0	72983	42
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23	15'7	219	24'4	2908	46'3	9050	33'2	19830	27'9	38481	44'1	78160	37
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25	15'8	259	24'8	3053	47'4	9324	35'5	20296	34'3	39324	28'9	80411	35
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27	15'9	302	25'3	3202	48'4	9604	37'9	20770	41'0	40188	15 18'8	82780	33
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42	17'3	732	29'6	4444	57'5	11871	58'1	24617	42'8	47385	26 36'0	105709	18
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59	6:1	1451	27:3	6118	13:2	14804	56:4	29602	16:1	57215	85 14:4	127976	1
60	6:3	1501	27:8	6227	14:3	14992	59:0	29926	26:8	57888	90 0:0	128120	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 ^H	1 ^H	2 ^H	3 ^H	4 ^H	5 ^H							
0	3°15.0	0	3°21.9	1501	3°45.1	6224	4°35.5	14982	6°28.8	29895	12°22.5	57749	60
1	15.0	0	22.1	1552	45.7	6333	36.7	15171	31.7	30220	34.4	58429	59
2	15.0	2	22.3	1604	46.2	6444	37.9	15362	34.7	30549	46.7	59120	58
3	15.0	4	22.6	1656	46.8	6556	39.1	15554	37.7	30881	59.4	59824	57
4	15.0	7	22.8	1710	47.4	6668	40.4	15749	40.8	31217	13 12.6	60538	56
5	15.0	10	23.1	1765	48.0	6782	41.7	15944	44.0	31556	26.2	61264	55
6	3°15.0	15	3°23.4	1820	3°48.6	6897	4°42.9	16142	6°47.2	31898	13°40.3	62003	54
7	15.1	20	23.6	1877	49.2	7013	44.3	16341	50.5	32244	54.9	62755	53
8	15.1	26	23.9	1934	49.8	7131	45.6	16542	53.8	32594	14 10.0	63520	52
9	15.2	33	24.2	1992	50.5	7249	46.9	16744	57.2	32947	25.7	64298	51
10	15.2	41	24.4	2051	51.1	7369	48.3	16949	7 0.6	33304	42.0	65091	50
11	3°15.2	50	3°24.7	2111	3°51.8	7490	4°49.6	17155	7° 4.2	33664	14°59.0	65898	49
12	15.3	59	25.0	2172	52.4	7611	51.0	17363	7.8	34028	15 16.6	66720	48
13	15.3	70	25.3	2234	53.1	7735	52.5	17573	11.4	34396	34.8	67558	47
14	15.4	81	25.6	2297	53.7	7859	53.9	17785	15.2	34768	53.9	68411	46
15	15.4	93	25.9	2360	54.4	7984	55.3	17998	19.0	35144	16 13.7	69281	45
16	3°15.5	106	3°26.2	2425	3°55.1	8111	4°56.8	18214	7°22.8	35524	16°34.4	70167	44
17	15.5	119	26.5	2490	55.8	8239	58.3	18431	26.8	35909	55.9	71072	43
18	15.6	134	26.8	2557	56.5	8368	59.8	18650	30.8	36297	17 18.4	71994	42
19	15.7	149	27.2	2624	57.2	8498	5 1.4	18871	35.0	36689	41.9	72937	41
20	15.7	165	27.5	2692	57.9	8629	2.9	19094	39.2	37086	18 6.5	73897	40
21	3°15.8	182	3°27.8	2761	3°58.7	8762	5° 4.5	19320	7°43.4	37488	18°32.2	74877	39
22	15.9	200	28.2	2832	59.4	8896	6.1	19547	47.8	37894	59.1	75879	38
23	16.0	218	28.5	2903	4 0.1	9031	7.7	19775	52.0	38304	19 27.4	76903	37
24	16.1	238	28.8	2975	0.9	9167	9.4	20007	56.9	38719	57.0	77948	36
25	16.2	258	29.2	3048	1.7	9305	11.0	20240	8 1.5	39139	20 28.2	79017	35
26	3°16.3	279	3°29.5	3121	4° 2.4	9444	5°12.7	20475	8° 6.3	39564	21° 0.9	80111	34
27	16.4	301	29.9	3196	3.2	9584	14.4	20712	11.2	39994	35.4	81227	33
28	16.5	324	30.3	3272	4.0	9726	16.2	20952	16.1	40428	22 11.8	82371	32
29	16.6	348	30.6	3349	4.8	9868	18.0	21193	21.2	40868	50.1	83540	31
30	16.7	372	31.0	3426	5.6	10011	19.7	21437	26.4	41313	23 30.7	84736	30
31	3°16.8	397	3°31.4	3505	4° 6.5	10157	5°21.6	21683	8°31.7	41763	24°13.5	85960	29
32	16.9	423	31.8	3585	7.3	10304	23.4	21931	37.2	42219	59.0	87215	28
33	17.0	450	32.2	3666	8.1	10452	25.3	22181	42.7	42680	25 47.2	88498	27
34	17.2	478	32.6	3747	9.0	10601	27.2	22434	48.4	43147	26 38.3	89810	26
35	17.3	507	33.0	3830	9.9	10752	29.1	22689	54.3	43620	27 32.8	91154	25
36	3°17.4	536	3°33.4	3913	4°10.7	10904	5°31.1	22946	9° 0.2	44098	28°30.8	92531	24
37	17.6	567	33.8	3998	11.6	11057	33.1	23206	6.3	44583	29 32.6	93940	23
38	17.7	598	34.2	4083	12.5	11212	35.1	23468	12.6	45075	30 38.7	95379	22
39	17.9	630	34.7	4170	13.5	11368	37.1	23732	19.0	45571	31 49.4	96852	21
40	18.0	663	35.1	4257	14.4	11526	39.2	23999	25.6	46074	33 5.1	98358	20
41	3°18.2	696	3°35.5	4346	4°15.3	11684	5°41.3	24268	9°32.3	46584	34°26.4	99893	19
42	18.3	731	36.0	4435	16.2	11845	43.5	24540	39.3	47101	35 53.7	101457	18
43	18.5	766	36.4	4526	17.2	12006	45.8	24814	46.3	47624	37 27.6	103051	17
44	18.6	803	36.9	4617	18.2	12169	47.9	25091	53.6	48155	39 8.8	104669	16
45	18.8	840	37.4	4710	19.1	12334	50.1	25370	10 1.1	48692	40 57.9	106309	15
46	3°19.0	878	3°37.8	4804	4°20.1	12500	5°52.4	25652	10° 8.8	49238	42°55.6	107965	14
47	19.2	917	38.3	4898	21.1	12667	54.8	25937	16.6	49790	45 2.8	109630	13
48	19.3	956	38.8	4994	22.2	12836	57.1	26224	24.7	50350	47 20.1	111294	12
49	19.5	997	39.3	5090	23.2	13007	59.5	26514	33.1	50919	49 48.3	112948	11
50	19.7	1038	39.8	5188	24.2	13178	6 2.0	26806	41.6	51495	52 28.2	114577	10
51	3°19.9	1081	3°40.3	5287	4°25.3	13352	6° 4.5	27103	10°50.4	52079	55°20.4	116160	9
52	20.1	1124	40.8	5387	26.4	13527	7.0	27401	59.5	52672	58 25.5	117686	8
53	20.3	1168	41.3	5488	27.5	13703	9.5	27702	11 8.8	53274	61 43.7	119130	7
54	20.5	1213	41.8	5590	28.6	13881	12.1	28006	18.4	53885	65 15.0	120462	6
55	20.7	1259	42.3	5693	29.7	14060	14.8	28314	28.3	54504	68 59.1	121657	5
56	3°21.0	1305	3°42.9	5797	4°30.8	14242	6°17.5	28624	11°38.4	55133	72°54.9	122683	4
57	21.2	1353	43.4	5902	32.0	14424	20.2	28937	48.9	55772	77 1.2	123520	3
58	21.4	1401	44.0	6008	33.1	14608	23.0	29253	59.8	56421	81 15.8	124142	2
59	21.6	1451	44.5	6115	34.3	14794	25.9	29572	12 10.9	57080	85 36.4	124518	1
60	21.9	1501	45.1	6224	35.5	14982	28.8	29895	22.5	57749	90 0.0	124647	0
	11 ^H	10 ^H	9 ^H	8 ^H	7 ^H	6 ^H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	3°30.0	0	3°37.4	1500	4° 2.4	6220	4°56.6	14971	6°58.4	29861	13°17.8	57602	60
1	30.0	0	37.6	1551	3.0	6329	57.9	15159	7 1.6	30187	30.5	58278	59
2	30.0	2	37.9	1603	3.6	6439	59.2	15350	4.8	30514	43.6	58961	58
3	30.0	4	38.2	1656	4.2	6552	5 0.6	15542	8.1	30846	57.2	59659	57
4	30.0	7	38.4	1710	4.9	6664	1.9	15736	11.4	31182	14 11.3	60370	56
5	30.0	10	38.7	1763	5.5	6778	3.3	15932	14.8	31518	25.8	61089	55
6	3°30.1	15	3°39.0	1819	4° 6.2	6893	5° 4.7	16130	7°18.3	31861	14°40.9	61821	54
7	30.1	20	39.3	1875	6.8	7009	6.1	16329	21.8	32206	56.5	62565	53
8	30.1	26	39.6	1933	7.5	7126	7.5	16529	25.4	32555	15 12.6	63324	52
9	30.2	33	39.9	1991	8.2	7245	8.9	16731	29.0	32908	29.4	64097	51
10	30.2	41	40.2	2050	8.9	7364	10.4	16935	32.7	33262	46.8	64879	50
11	3°30.2	50	3°40.5	2110	4° 9.6	7485	5°11.9	17141	7°36.5	33623	16° 4.8	65676	49
12	30.3	59	40.8	2171	10.3	7606	13.4	17350	40.4	33987	23.6	66489	48
13	30.3	70	41.1	2233	11.0	7729	14.9	17558	44.3	34352	43.0	67319	47
14	30.4	81	41.4	2296	11.7	7854	16.4	17771	48.3	34724	17 3.3	68165	46
15	30.4	93	41.7	2359	12.4	7979	18.0	17984	52.4	35098	24.4	69022	45
16	3°30.5	106	3°42.1	2423	4°13.2	8106	5°19.6	18199	7°56.6	35478	17°46.4	69898	44
17	30.6	119	42.4	2489	13.9	8233	21.2	18417	8 0.8	35863	18 9.3	70789	43
18	30.7	134	42.7	2555	14.7	8362	22.8	18635	5.2	36249	33.2	71700	42
19	30.7	149	43.1	2623	15.4	8493	24.5	18855	9.6	36641	58.1	72628	41
20	30.8	165	43.4	2691	16.2	8623	26.1	19079	14.1	37036	19 24.2	73577	40
21	3°30.9	182	3°43.8	2760	4°17.0	8757	5°27.8	19304	8°18.7	37437	19°51.5	74541	39
22	31.0	200	44.2	2830	17.8	8890	29.5	19530	23.4	37841	20 20.0	75527	38
23	31.1	218	44.5	2901	18.6	9026	31.3	19759	28.2	38249	49.9	76530	37
24	31.2	237	44.9	2972	19.4	9161	33.1	19990	33.1	38666	21 21.3	77558	36
25	31.3	258	45.3	3045	20.2	9299	34.9	20222	38.1	39083	54.2	78611	35
26	3°31.4	279	3°45.7	3119	4°21.1	9438	5°36.7	20458	8°43.2	39506	22°28.8	79682	34
27	31.5	301	46.1	3194	21.9	9578	38.5	20694	48.5	39933	23 5.1	80775	33
28	31.6	324	46.4	3270	22.8	9720	40.4	20934	53.8	40368	43.4	81888	32
29	31.7	347	46.9	3347	23.6	9862	42.3	21174	59.3	40806	24 23.8	83034	31
30	31.8	372	47.3	3425	24.5	10006	44.2	21419	9 4.8	41249	25 6.4	84204	30
31	3°31.9	397	3°47.7	3504	4°25.4	10151	5°46.2	21664	9°10.5	41698	25°51.4	85394	29
32	32.1	423	48.1	3583	26.3	10298	48.2	21911	16.4	42151	26 39.0	86617	28
33	32.2	450	48.5	3663	27.2	10445	50.2	22161	22.3	42611	27 29.5	87858	27
34	32.3	478	48.9	3745	28.1	10594	52.2	22413	28.5	43076	28 22.9	89136	26
35	32.5	506	49.4	3827	29.1	10745	54.3	22669	34.7	43547	29 19.7	90435	25
36	3°32.6	536	3°49.8	3911	4°30.0	10897	5°56.4	22925	9°41.1	44025	30°20.0	91762	24
37	32.8	566	50.3	3996	31.0	11050	58.6	23185	47.7	44508	31 24.2	93121	23
38	32.9	598	50.7	4081	31.9	11204	6 0.8	23446	54.4	44997	32 32.6	94503	22
39	33.1	630	51.2	4167	32.9	11361	3.0	23709	10 1.3	45490	33 45.6	95920	21
40	33.2	663	51.6	4255	33.9	11517	5.2	23977	8.3	45992	35 3.6	97361	20
41	3°33.4	696	3°52.1	4343	4°34.9	11676	6° 7.5	24245	10°15.6	46501	36°27.0	98787	19
42	33.6	731	52.6	4432	35.9	11836	9.8	24517	23.0	47014	37 56.3	100309	18
43	33.8	766	53.1	4523	36.9	11998	12.1	24790	30.6	47536	39 32.0	101816	17
44	33.9	803	53.6	4615	38.0	12160	14.5	25066	38.4	48063	41 14.7	103338	16
45	34.1	839	54.1	4707	39.0	12325	16.9	25346	46.4	48600	43 4.9	104873	15
46	3°34.3	877	3°54.6	4801	4°40.1	12490	6°19.4	25627	10°54.6	49142	45° 3.2	106420	14
47	34.5	916	55.1	4896	41.2	12658	21.9	25911	11 3.1	49690	47 10.3	107965	13
48	34.7	956	55.6	4990	42.3	12827	24.4	26197	11.7	50247	49 26.8	109505	12
49	34.9	997	56.1	5087	43.4	12997	27.0	26488	20.7	50814	51 53.3	111020	11
50	35.1	1038	56.7	5186	44.5	13169	29.7	26781	29.8	51385	54 30.3	112506	10
51	3°35.3	1080	3°57.2	5284	4°45.7	13342	6°32.3	27076	11°39.4	51968	57°18.2	113941	9
52	35.5	1123	57.8	5384	46.8	13517	35.0	27374	48.9	52556	60 17.5	115318	8
53	35.7	1168	58.3	5485	48.0	13694	37.8	27674	58.9	53155	63 28.0	116600	7
54	36.0	1212	58.9	5586	49.2	13871	40.6	27978	12 9.2	53763	66 49.8	117790	6
55	36.2	1258	59.4	5689	50.4	14051	43.4	28284	19.8	54376	70 22.2	118827	5
56	3°36.4	1304	4° 0.0	5793	4°51.6	14232	6°46.3	28594	12°30.7	55004	74° 4.2	119731	4
57	36.7	1352	0.6	5898	52.8	14415	49.3	28906	41.9	55637	77 55.2	120462	3
58	36.9	1400	1.2	6005	54.1	14598	52.3	29220	53.5	56285	81 52.8	121001	2
59	37.1	1450	1.8	6111	55.3	14783	55.3	29539	13 5.4	56938	85 55.2	121329	1
60	37.4	1500	2.4	6220	56.6	14971	58.4	29861	17.8	57602	90 0.0	121432	0
	11 H		10 H		9 H		8 H		7 H		6 H		m

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	3°45'0	0	3°52'9	1499	4°19'7	6216	5°17'7	14959	7°28'1	29826	14°12'7	57444	60
1	45'0	0	53'2	1550	20'3	6325	19'1	15148	31'5	30151	26'2	58114	59
2	45'0	2	53'5	1602	21'0	6436	20'5	15338	34'9	30478	40'2	58794	58
3	45'0	4	53'8	1654	21'7	6547	22'0	15530	38'4	30809	54'6	59485	57
4	45'0	7	54'0	1708	22'4	6660	23'4	15723	42'0	31143	15 9'5	60187	56
5	45'0	10	54'3	1763	23'1	6774	24'9	15919	45'6	31480	25'0	60901	55
6	3°45'1	15	3°54'6	1818	4°23'7	6889	5°26'4	16116	7°49'3	31821	15°41'0	61627	54
7	45'1	20	54'9	1875	24'5	7005	27'9	16315	53'0	32165	57'5	62364	53
8	45'1	26	55'2	1932	25'2	7122	29'4	16515	56'9	32513	16 14'7	63115	52
9	45'2	33	55'6	1990	25'9	7240	30'9	16717	8 0'8	32864	32'4	63877	51
10	45'2	41	55'9	2049	26'6	7359	32'5	16921	4'7	33219	50'9	64654	50
11	3°45'3	50	3°56'2	2109	4°27'4	7480	5°34'1	17127	8° 8'8	33578	17°10'0	65444	49
12	45'3	59	56'5	2170	28'1	7602	35'7	17335	12'9	33941	29'8	66248	48
13	45'4	70	56'9	2231	28'9	7725	37'3	17544	17'1	34307	50'5	67066	47
14	45'4	81	57'2	2294	29'6	7849	38'9	17755	21'4	34677	18 11'9	67899	46
15	45'5	93	57'6	2358	30'4	7974	40'6	17968	25'8	35051	34'2	68747	45
16	3°45'5	106	3°57'9	2422	4°31'2	8100	5°42'3	18183	8°30'2	35429	18°57'5	69611	44
17	45'6	119	58'3	2487	32'0	8228	44'0	18400	34'8	35811	19 21'7	70491	43
18	45'7	134	58'6	2554	32'8	8357	45'8	18619	39'4	36197	46'9	71388	42
19	45'8	149	59'0	2621	33'7	8487	47'5	18839	44'1	36587	20 13'2	72302	41
20	45'9	165	59'4	2689	34'5	8618	49'3	19062	48'9	36982	40'7	73234	40
21	3°45'9	182	3°59'8	2758	4°35'3	8751	5°51'1	19286	8°53'9	37381	21° 9'5	74184	39
22	46'0	200	4 0'2	2828	36'2	8884	53'0	19513	58'9	37785	39'5	75153	38
23	46'1	218	0'6	2899	37'0	9019	54'9	19741	9 4'0	38193	22 11'0	76141	37
24	46'2	237	1'0	2971	37'9	9155	56'8	19971	9'3	38605	44'0	77145	36
25	46'3	258	1'4	3044	38'8	9293	58'7	20204	14'6	39022	23 18'5	78175	35
26	3°46'5	279	4° 1'8	3118	4°39'7	9431	6° 0'6	20439	9°20'1	39444	23°54'8	79225	34
27	46'6	301	2'2	3193	40'6	9571	2'6	20676	25'6	39871	24 33'0	80295	33
28	46'7	324	2'6	3268	41'5	9713	4'6	20914	31'3	40303	25 13'1	81388	32
29	46'8	347	3'0	3345	42'4	9855	6'6	21155	37'2	40739	55'3	82503	31
30	46'9	372	3'5	3422	43'4	9999	8'7	21398	43'1	41181	26 39'8	83640	30
31	3°47'1	397	4° 3'9	3501	4°44'3	10144	6°10'8	21643	9°49'2	41628	27°26'8	84802	29
32	47'2	423	4'4	3581	45'3	10290	12'9	21891	55'5	42081	28 16'3	85986	28
33	47'3	450	4'8	3661	46'3	10438	15'1	22140	10 1'8	42538	29 8'7	87196	27
34	47'5	478	5'3	3743	47'2	10587	17'3	22392	8'4	43002	30 4'2	88430	26
35	47'6	506	5'8	3825	48'2	10737	19'5	22646	15'0	43471	31 3'0	89686	25
36	3°47'8	536	4° 6'2	3909	4°49'3	10889	6°21'8	22903	10°21'9	43946	32° 5'4	90969	24
37	47'9	566	6'7	3993	50'3	11042	24'1	23162	28'9	44426	33 11'6	92275	23
38	48'1	597	7'2	4079	51'3	11196	26'4	23423	36'0	44913	34 22'0	93604	22
39	48'3	629	7'7	4165	52'4	11352	28'7	23686	43'4	45406	35 36'9	94958	21
40	48'4	662	8'2	4252	53'4	11509	31'1	23952	50'9	45905	36 56'6	96330	20
41	3°48'6	696	4° 8'7	4341	4°54'5	11668	6°33'6	24221	10°58'6	46410	38°21'7	97723	19
42	48'8	730	9'2	4430	55'6	11828	36'0	24491	11 6'5	46922	39 52'5	99133	18
43	49'0	765	9'7	4521	56'7	11989	38'6	24765	14'6	47441	41 29'4	100557	17
44	49'2	801	10'2	4612	57'8	12152	41'1	25041	23'0	47966	43 13'0	101994	16
45	49'4	839	10'8	4704	58'9	12316	43'7	25319	31'5	48499	45 3'7	103435	15
46	3°49'6	877	4°11'3	4798	5° 0'1	12482	6°46'3	25600	11°40'3	49038	47° 2'0	104877	14
47	49'8	916	11'9	4892	1'2	12649	49'0	25884	49'3	49585	49 8'5	106308	13
48	50'0	955	12'4	4988	2'4	12818	51'7	26170	58'5	50139	51 23'6	107729	12
49	50'2	996	13'0	5084	3'6	12987	54'5	26459	12 8'0	50701	53 47'7	109122	11
50	50'4	1037	13'6	5182	4'8	13159	57'3	26751	17'8	51271	56 21'4	110485	10
51	3°50'7	1079	4°14'1	5281	5° 6'0	13332	7° 0'2	27045	12°27'8	51849	59° 4'7	111781	9
52	50'9	1123	14'7	5380	7'3	13507	3'1	27342	38'1	52435	61 58'0	113022	8
53	51'1	1167	15'3	5481	8'5	13683	6'0	27642	48'8	53029	65 1'1	114173	7
54	51'4	1212	15'9	5583	9'8	13860	9'0	27945	59'7	53632	68 13'7	115228	6
55	51'6	1257	16'5	5686	11'1	14040	12'0	28251	13 11'0	54244	71 35'5	116156	5
56	3°51'9	1304	4°17'1	5790	5°12'4	14220	7°15'1	28560	13°22'6	54865	75° 5'4	116953	4
57	52'1	1351	17'8	5895	13'7	14402	18'3	28872	34'5	55495	78 42'4	117591	3
58	52'4	1400	18'4	6001	15'0	14586	21'5	29187	46'8	56135	82 25'0	118056	2
59	52'6	1449	19'0	6108	16'4	14772	24'8	29505	59'5	56784	86 11'5	118344	1
60	52'9	1499	19'7	6216	17'7	14959	28'1	29826	14 12'7	57444	90 0'0	118440	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H			1 H			2 H			3 H			4 H			5 H			
0	4"	0' 0	0	4"	8' 4	1498	4°37'0	6212	5°38'9	14946	7°57'7	29788	15° 7' 1	57276			60		
1		0' 0	0		8' 7	1549	37' 7	6321	40' 3	15135	8 1' 3	30112	21' 5	57939			59		
2		0' 0	2		9' 0	1601	38' 4	6432	41' 8	15324	4' 9	30440	36' 3	58615			58		
3		0' 0	4		9' 3	1653	39' 1	6543	43' 4	15516	8' 7	30768	51' 5	59299			57		
4		0' 0	7		9' 6	1707	39' 8	6656	44' 9	15709	12' 4	31102	16 7' 3	59996			56		
5		0' 0	10		9' 9	1762	40' 6	6769	46' 4	15906	16' 3	31438	23' 6	60701			55		
6	4"	0' 1	15	4°	10' 3	1817	4°41' 3	6884	5°48' 0	16103	8°20' 2	31780	16°40' 5	61420			54		
7		0' 1	20		10' 6	1873	42' 1	6999	49' 6	16300	24' 2	32122	58' 0	62152			53		
8		0' 1	26		10' 9	1931	42' 8	7117	51' 3	16500	28' 3	32469	17 16' 1	62894			52		
9		0' 2	33		11' 3	1989	43' 6	7235	52' 9	16703	32' 5	32820	34' 8	63647			51		
10		0' 2	41		11' 6	2048	44' 4	7355	54' 6	16907	36' 7	33173	54' 3	64415			50		
11	4"	0' 3	50	4°	12' 0	2107	4°45' 2	7475	5°56' 3	17112	8°41' 0	33530	18°14' 4	65198			49		
12		0' 3	59		12' 3	2168	46' 0	7596	58' 0	17319	45' 4	33892	35' 4	65991			48		
13		0' 4	70		12' 7	2230	46' 8	7719	59' 7	17527	49' 8	34258	57' 1	66798			47		
14		0' 4	81		13' 0	2293	47' 6	7843	6 1' 4	17739	54' 4	34627	19 19' 7	67622			46		
15		0' 5	93		13' 3	2356	48' 4	7968	3' 2	17952	59' 1	35000	43' 2	68457			45		
16	4"	0' 6	105	4°	13' 8	2420	4°49' 3	8095	6° 5' 0	18166	9° 3' 8	35376	20° 7' 6	69310			44		
17		0' 7	119		14' 2	2485	50' 1	8222	6' 9	18382	8' 6	35756	33' 0	70178			43		
18		0' 7	133		14' 6	2552	51' 0	8351	8' 7	18601	13' 6	36141	59' 6	71059			42		
19		0' 8	149		14' 9	2619	51' 9	8481	10' 6	18821	18' 6	36530	21 27' 2	71960			41		
20		0' 9	165		15' 3	2688	52' 8	8612	12' 5	19043	23' 7	36925	56' 1	72876			40		
21	4"	0' 10	182	4°	15' 7	2757	4°53' 6	8744	6°14' 5	19268	9°28' 9	37321	22°26' 2	73808			39		
22		1' 1	199		16' 2	2827	54' 6	8877	16' 4	19494	34' 3	37724	57' 7	74763			38		
23		1' 2	218		16' 6	2897	55' 5	9011	18' 4	19722	39' 7	38131	23 30' 6	75726			37		
24		1' 3	237		17' 0	2969	56' 4	9148	20' 4	19952	45' 3	38542	24 5' 1	76719			36		
25		1' 4	258		17' 4	3042	57' 4	9286	22' 5	20184	51' 0	38958	41' 2	77721			35		
26	4"	1' 5	279	4°	17' 9	3116	4°58' 3	9424	6°24' 5	20419	9°56' 8	39379	25°19' 1	78748			34		
27		1' 7	301		18' 3	3190	59' 3	9564	26' 7	20654	10 2' 7	39803	58' 9	79793			33		
28		1' 8	323		18' 8	3266	5 0' 2	9706	28' 8	20893	8' 8	40233	26 40' 6	80863			32		
29		1' 9	347		19' 2	3343	1' 2	9848	31' 0	21134	15' 0	40670	27 24' 5	81949			31		
30		2' 1	371		19' 7	3421	2' 2	9992	33' 2	21377	21' 3	41108	28 10' 8	83056			30		
31	4"	2' 2	397	4°	20' 2	3499	5° 3' 2	10136	6°35' 4	21621	10°27' 8	41554	28 59' 5	84187			29		
32		2' 4	423		20' 7	3578	4' 3	10283	37' 7	21869	34' 4	42004	29 50' 8	85336			28		
33		2' 5	450		21' 1	3659	5' 3	10430	40' 0	22117	41' 2	42461	30 45' 0	86506			27		
34		2' 7	477		21' 6	3740	6' 4	10579	42' 3	22369	48' 1	42922	31 42' 2	87697			26		
35		2' 8	506		22' 1	3823	7' 4	10729	44' 7	22623	55' 2	43388	32 42' 8	88913			25		
36	4"	3' 0	535	4°	22' 6	3907	5° 8' 5	10881	6°47' 1	22879	11° 2' 5	43862	33°46' 9	90152			24		
37		3' 1	565		23' 1	3990	9' 6	11034	49' 5	23137	9' 9	44340	34 54' 8	91410			23		
38		3' 3	597		23' 7	4076	10' 7	11188	52' 0	23398	17' 5	44821	36 6' 8	92684			22		
39		3' 5	629		24' 2	4162	11' 8	11343	54' 5	23662	25' 3	45315	37 23' 3	93976			21		
40		3' 7	661		24' 7	4250	12' 9	11501	57' 1	23927	33' 3	45811	38 44' 4	95285			20		
41	4"	3' 9	695	4°	25' 3	4338	5°14' 1	11659	6°59' 6	24195	11°41' 5	46315	40°10' 8	96611			19		
42		4' 1	730		25' 8	4427	15' 2	11819	7 2' 3	24465	49' 9	46825	41 42' 5	97945			18		
43		4' 3	765		26' 4	4518	16' 4	11980	5' 0	24737	58' 5	47340	43 20' 2	99296			17		
44		4' 5	801		26' 9	4608	17' 6	12142	7' 7	25013	12 7' 3	47862	45 4' 2	100644			16		
45		4' 7	839		27' 5	4701	18' 8	12307	10' 4	25290	16' 4	48393	46 54' 9	101993			15		
46	4"	4' 9	877	4°	28' 1	4795	5°20' 0	12473	7°13' 2	25572	12°25' 7	48931	48°52' 7	103338			14		
47		5' 1	915		28' 7	4889	21' 3	12639	16' 1	25855	35' 2	49473	50 58' 0	104676			13		
48		5' 3	955		29' 2	4984	22' 5	12807	19' 0	26140	45' 0	50023	53 11' 2	105983			12		
49		5' 6	996		29' 8	5082	23' 8	12977	21' 9	26428	55' 1	50580	55 32' 7	107260			11		
50		5' 8	1036		30' 5	5178	25' 1	13148	24' 9	26720	13 5' 5	51150	58 2' 7	108498			10		
51	4"	6' 0	1079	4°	31' 1	5277	5°26' 4	13321	7°27' 9	27014	13°16' 1	51724	60°41' 3	109693			9		
52		6' 3	1122		31' 7	5376	27' 7	13496	31' 0	27310	27' 1	52305	63 28' 6	110809			8		
53		6' 6	1166		32' 3	5477	29' 0	13671	34' 2	27609	38' 3	52895	66 24' 5	111856			7		
54		6' 8	1211		33' 0	5579	30' 4	13849	37' 4	27910	49' 9	53494	69 28' 6	112793			6		
55		7' 1	1257		33' 6	5682	31' 7	14028	40' 6	28216	14 1' 8	54101	72 40' 4	113630			5		
56	4"	7' 3	1303	4°	34' 3	5786	5°33' 1	14209	7°43' 9	28525	14°14' 1	54718	75°59' 2	114325			4		
57		7' 6	1351		34' 9	5891	34' 5	14391	47' 3	28837	26' 8	55343	79 23' 9	114889			3		
58		7' 9	1398		35' 6	5997	36' 0	14575	50' 7	29150	39' 8	55979	82 53' 2	115300			2		
59		8' 2	1448		36' 3	6104	37' 4	14759	54' 1	29468	53' 3	56624	86 25' 8	115551			1		
60		8' 4	1498		37' 0	6212	38' 9	14946	57' 7	29788	15 7' 1	57276	90 0' 0	115642			0		
		11 H	10 H		9 H	8 H		7 H		6 H				m					

m	0 II			1 H		2 H		3 H		4 H		5 H		
0	4°15.0	0	4°24.0	1497	4°54.3	6207	6° 0.0	14933	8°27.2	29748	16° 1.2	57100	60	
1	15.0	0	24.3	1548	55.0	6316	1.5	15121	31.0	30071	16.3	57758	59	
2	15.0	2	24.6	1599	55.8	6427	3.1	15311	34.9	30396	31.9	58426	58	
3	15.0	4	24.9	1652	56.5	6538	4.7	15502	38.9	30726	47.9	59105	57	
4	15.0	7	25.2	1706	57.3	6650	6.4	15695	42.9	31058	17 4.5	59794	56	
5	15.1	10	25.6	1760	58.1	6764	8.0	15890	47.0	31394	21.7	60493	55	
6	4°15.1	15	4°25.9	1816	4°58.9	6879	6° 9.7	16087	8°51.1	31733	17°39.5	61205	54	
7	15.1	20	26.3	1872	59.7	6994	11.4	16285	55.4	32075	57.8	61927	53	
8	15.2	26	26.6	1929	5 0.5	7111	13.1	16485	59.7	32421	18 16.9	62661	52	
9	15.2	33	27.0	1987	1.3	7229	14.9	16687	9 4.1	32771	36.6	63408	51	
10	15.2	41	27.3	2046	2.1	7349	16.6	16890	8.6	33124	57.0	64166	50	
11	4°15.3	50	4°27.7	2106	5° 3.0	7469	6°18.4	17095	9°13.1	33480	19°18.1	64937	49	
12	15.3	59	28.1	2167	3.8	7591	20.2	17302	17.9	33840	40.1	65721	48	
13	15.4	70	28.5	2228	4.7	7713	22.1	17511	22.5	34205	20 2.9	66518	47	
14	15.5	81	28.8	2291	5.5	7837	23.9	17722	27.3	34573	26.6	67329	46	
15	15.5	93	29.2	2355	6.4	7962	25.8	17934	32.3	34944	51.2	68154	45	
16	4°15.6	105	4°29.6	2419	5° 7.3	8088	6°27.7	18149	9°37.3	35320	21°16.7	68993	44	
17	15.7	119	30.0	2484	8.2	8216	29.7	18365	42.4	35700	43.4	69847	43	
18	15.8	133	30.5	2550	9.1	8344	31.7	18583	47.6	36084	22 11.1	70716	42	
19	15.9	149	30.9	2618	10.1	8474	33.7	18803	52.9	36472	40.0	71600	41	
20	16.0	165	31.3	2686	11.0	8605	35.7	19025	58.4	36863	23 10.1	72501	40	
21	4°16.1	182	4°31.7	2755	5°12.0	8737	6°37.7	19248	10° 3.9	37260	23°41.6	73417	39	
22	16.2	199	32.2	2825	12.9	8871	39.8	19474	9.6	37661	24 14.4	74350	38	
23	16.3	218	32.6	2895	13.9	9006	41.9	19702	15.3	38066	48.7	75300	37	
24	16.4	237	33.1	2967	14.9	9141	44.1	19932	21.2	38475	25 24.6	76268	36	
25	16.5	258	33.5	3040	15.9	9278	46.2	20164	27.4	38889	26 2.1	77253	35	
26	4°16.6	278	4°34.0	3114	5°16.9	9417	6°48.4	20397	10°33.4	39308	26°41.5	78257	34	
27	16.8	301	34.5	3188	17.9	9557	50.7	20633	39.7	39731	27 22.7	79277	33	
28	16.9	323	35.0	3264	19.0	9698	53.0	20870	46.1	40160	28 6.0	80318	32	
29	17.0	347	35.4	3340	20.0	9840	55.3	21111	52.7	40594	51.5	81376	31	
30	17.2	371	35.9	3418	21.1	9983	57.6	21354	59.4	41032	29 39.3	82453	30	
31	4°17.3	396	4°36.4	3496	5°22.1	10128	7° 0.0	21598	11° 6.2	41475	30°29.5	83550	29	
32	17.5	422	36.9	3576	23.2	10274	2.4	21845	13.2	41924	31 22.4	84666	28	
33	17.7	449	37.4	3656	24.3	10422	4.8	22093	20.4	42378	32 18.2	85799	27	
34	17.8	477	38.0	3738	25.5	10570	7.3	22344	27.7	42837	33 17.0	86953	26	
35	18.0	506	38.5	3820	26.6	10720	9.8	22598	35.2	43302	34 19.1	88124	25	
36	4°18.2	535	4°39.0	3903	5°27.7	10872	7°12.3	22853	11°42.9	43773	35°24.6	89313	24	
37	18.3	565	39.6	3988	28.9	11024	14.9	23111	50.8	44249	36 33.9	90518	23	
38	18.5	596	40.1	4073	30.1	11178	17.6	23372	58.8	44731	37 47.3	91741	22	
39	18.7	628	40.7	4159	31.3	11334	20.2	23634	12 7.1	45218	39 4.9	92977	21	
40	18.9	661	41.2	4247	32.5	11491	22.9	23899	15.5	45712	40 27.1	94224	20	
41	4°19.1	695	4°41.8	4335	5°33.7	11649	7°25.7	24166	12°24.2	46213	41°54.3	95484	19	
42	19.3	729	42.4	4424	34.9	11809	28.5	24436	33.0	46719	43 26.7	96749	18	
43	19.5	765	43.0	4514	36.0	11970	31.3	24708	42.1	47233	45 4.7	98020	17	
44	19.8	801	43.6	4606	37.4	12132	34.2	24983	51.5	47753	46 48.7	99292	16	
45	20.0	838	44.2	4698	38.7	12296	37.1	25261	13 1.0	48279	48 38.9	100557	15	
46	4°20.2	876	4°44.8	4791	5°40.0	12461	7°40.1	25540	13°10.8	48812	50°35.8	101814	14	
47	20.4	915	45.4	4886	41.3	12628	43.1	25823	21.0	49353	52 39.6	103051	13	
48	20.7	954	46.1	4981	42.6	12796	46.2	26108	31.3	49901	54 50.7	104267	12	
49	20.9	995	46.7	5077	44.0	12966	49.3	26396	41.9	50455	57 9.2	105446	11	
50	21.2	1036	47.3	5175	45.3	13137	52.5	26687	52.9	51018	59 35.3	106581	10	
51	4°21.4	1078	4°48.0	5273	5°46.7	13310	7°55.7	26980	14° 4.1	51588	62° 9.1	107664	9	
52	21.7	1121	48.7	5373	48.1	13484	59.0	27276	15.7	52167	64 50.6	108687	8	
53	22.0	1165	49.3	5473	49.5	13659	8 2.3	27575	27.5	52753	57 39.6	109630	7	
54	22.2	1210	50.0	5575	51.0	13837	5.7	27876	39.8	53347	70 35.7	110474	6	
55	22.5	1256	50.7	5678	52.4	14015	9.1	28181	52.3	53951	73 38.4	111215	5	
56	4°22.8	1302	4°51.4	5782	5°53.9	14196	8°12.6	28488	15° 5.3	54562	76°47.0	111845	4	
57	23.0	1350	52.1	5886	55.4	14378	16.2	28799	18.6	55182	80 0.6	112350	3	
58	23.4	1398	52.8	5992	56.9	14561	19.8	29112	32.4	55812	83 18.1	112717	2	
59	23.7	1447	53.5	6099	58.4	14746	23.5	29428	46.6	56452	86 38.4	112940	1	
60	24.0	1497	54.3	6207	6 0.0	14933	27.2	29748	16 1.2	57100	90 0.0	113013	0	
	11 H	10 H	9 H	8 H	7 H	6 H	m							

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	4°30:0	0	4°39:5	1496	5°11:5	6202	6°21:1	14918	8°56:7	29705	16°54:8	56916	60
1	30:0	0	39:8	1547	12:3	6312	22:7	15105	9 0:7	30027	17 10:6	57566	59
2	30:0	2	40:1	1598	13:1	6422	24:4	15296	4:8	30354	27:0	58227	58
3	30:0	4	40:5	1651	13:9	6533	26:1	15488	9:0	30681	43:8	58899	57
4	30:0	7	40:8	1705	14:8	6645	27:8	15679	13:2	31013	18 1:2	59582	56
5	30:1	10	41:2	1760	15:6	6759	29:6	15874	17:6	31347	19:2	60275	55
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9	30:2	33	42:7	1986	19:0	7223	36:8	16670	35:6	32720	37:6	63155	51
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14	30:5	81	44:6	2289	23:5	7831	46:4	17703	10 0:2	34517	32:5	67023	46
15	30:6	92	45:1	2353	24:4	7955	48:4	17915	5:4	34887	58:2	67833	45
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19	30:9	148	46:8	2616	28:3	8467	56:7	18782	27:2	36408	51:5	71224	41
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22	31:2	199	48:2	2822	31:3	8863	3:2	19453	44:8	37592	25 29:6	73923	38
23	31:4	218	48:6	2893	32:3	8998	5:4	19682	50:8	37996	26 5:2	74853	37
24	31:5	237	49:1	2965	33:4	9134	7:7	19909	57:1	38405	42:4	75800	36
25	31:6	258	49:6	3038	34:4	9271	10:0	20140	11 3:4	38817	27 21:3	76763	35
26	4°31:7	278	4°50:1	3111	5°35:5	9410	7°12:3	20375	11° 9:9	39233	28° 2:0	77744	34
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37	33:5	565	56:0	3984	48:2	11014	40:3	23083	31:5	44152	38 9:1	89618	23
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39	33:9	628	57:2	4157	50:7	11324	45:9	23607	48:6	45117	40 42:0	91970	21
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41	4°34:4	694	4°58:4	4332	5°53:2	11638	7°51:7	24137	13° 6:6	46105	43°32:6	94349	19
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44	35:0	800	5 0:3	4602	57:2	12121	8 0:7	24952	35:4	47636	48 26:9	97945	16
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46	4°35:5	875	5° 1:5	4787	5°59:9	12450	8° 6:9	25507	13°55:8	48692	52°12:0	100309	14
47	35:8	913	2:2	4882	6 1:3	12617	10:1	25790	14 6:4	49227	54 14:0	101458	13
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49	36:3	994	3:5	5073	4:1	12954	16:6	26362	28:5	50319	58 38:0	103679	11
50	36:5	1035	4:2	5171	5:6	13124	20:0	26651	40:0	50881	61 0:2	104718	10
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53	37:4	1165	6:3	5469	10:0	13646	30:4	27537	16:4	52605	68 47:5	107484	7
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55	37:9	1255	7:8	5673	13:1	14003	37:6	28142	42:5	53792	74 30:4	108929	5
56	4°38:2	1301	5° 8:5	5777	6°14:6	14183	8°41:3	28448	15°56:1	54398	77°29:8	109489	4
57	38:5	1349	9:3	5882	16:2	14364	45:0	28759	16 10:1	55012	80 33:4	109946	3
58	38:8	1397	10:0	5988	17:8	14547	48:9	29071	24:6	55637	83 40:4	110264	2
59	39:2	1446	10:8	6094	19:4	14732	52:8	29387	39:5	56272	86 49:6	110472	1
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	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	4°45'0	0	4°55'0	1495	5°28'8	6197	6°42'1	14903	9°26'1	29661	17°48'0	56719	60
1	45'0	0	55'3	1546	29'7	6306	43'9	15091	30'4	29982	18 4'5	57366	59
2	45'0	2	55'7	1597	30'5	6416	45'7	15280	34'7	30306	21'6	58020	58
3	45'0	4	56'1	1650	31'4	6528	47'5	15471	39'1	30633	39'2	58685	57
4	45'0	7	56'4	1704	32'2	6640	49'3	15664	43'5	30964	57'4	59360	56
5	45'1	10	56'8	1758	33'1	6753	51'1	15858	48'1	31297	19 16'2	60045	55
6	4°45'1	15	4°57'2	1813	5°34'0	6868	6°53'0	16054	9°52'7	31635	19°35'6	60740	54
7	45'1	20	57'6	1869	34'9	6983	54'9	16252	57'4	31975	55'6	61445	53
8	45'2	26	58'0	1927	35'8	7100	56'8	16451	10 2'2	32319	20 16'4	62163	52
9	45'2	33	58'4	1984	36'7	7218	58'7	16652	7'1	32666	37'9	62891	51
10	45'3	41	58'8	2043	37'6	7337	7 0'7	16855	12'1	33017	21 0'1	63630	50
11	4°45'3	50	4°59'2	2103	5°38'5	7457	7° 2'7	17060	10°17'2	33371	21°23'2	64381	49
12	45'4	59	59'6	2164	39'5	7578	4'7	17266	22'3	33729	47'1	65144	48
13	45'5	69	5 0'0	2225	40'5	7701	6'8	17474	27'6	34091	22 11'8	65918	47
14	45'5	81	0'5	2288	41'4	7824	8'9	17684	32'9	34457	37'5	66706	46
15	45'6	92	0'9	2351	42'4	7949	11'0	17896	38'4	34825	23 4'2	67506	45
16	4°45'7	105	5° 1'3	2415	5°43'4	8075	7°13'1	18110	10°44'0	35199	23°31'9	68318	44
17	45'8	119	1'8	2481	44'5	8202	15'3	18325	49'7	35576	24 0'7	69145	43
18	45'9	133	2'3	2547	45'4	8330	17'5	18542	55'5	35956	30'7	69984	42
19	46'0	148	2'7	2614	46'5	8460	19'7	18762	11 1'4	36342	25 1'9	70838	41
20	46'1	164	3'2	2682	47'5	8591	21'9	18983	7'4	36731	34'3	71705	40
21	4°46'2	181	5° 3'7	2751	5°48'6	8723	7°24'2	19206	11°13'6	37124	26° 8'1	72586	39
22	46'3	199	4'2	2820	49'7	8856	26'6	19431	19'8	37522	43'4	73482	38
23	46'4	218	4'7	2891	50'8	8990	28'9	19658	26'2	37924	27 20'2	74394	37
24	46'6	237	5'2	2963	51'9	9126	31'3	19887	32'8	38330	58'6	75319	36
25	46'7	257	5'7	3036	53'0	9263	33'7	20118	39'5	38741	28 38'7	76259	35
26	4°46'8	278	5° 6'2	3109	5°54'1	9401	7°36'2	20351	11°46'3	39156	29°20'6	77216	34
27	47'0	300	6'7	3184	55'2	9540	38'7	20586	53'2	39576	30 4'5	78186	33
28	47'1	323	7'3	3259	56'4	9681	41'2	20823	12 0'3	40001	50'4	79173	32
29	47'3	346	7'8	3336	57'6	9823	43'8	21062	7'6	40430	31 38'5	80175	31
30	47'4	371	8'3	3413	58'8	9966	46'4	21304	15'0	40865	32 28'9	81192	30
31	4°47'6	396	5° 8'9	3491	6° 0'0	10110	7°49'0	21547	12°22'6	41305	33°21'7	82223	29
32	47'8	422	9'5	3571	1'2	10256	51'7	21793	30'4	41749	34 17'2	83270	28
33	48'0	449	10'1	3651	2'4	10403	54'4	22041	38'3	42198	35 15'5	84330	27
34	48'2	476	10'6	3732	3'6	10552	57'1	22291	46'5	42653	36 16'8	85404	26
35	48'3	505	11'2	3814	4'9	10701	59'9	22543	54'8	43113	37 21'2	86492	25
36	4°48'5	534	5°11'8	3898	6° 6'2	10852	8° 2'8	22798	13° 3'3	43579	38°29'0	87591	24
37	48'7	565	12'4	3982	7'5	11005	5'7	23055	12'0	44051	39 40'3	88700	23
38	48'9	596	13'1	4067	8'8	11159	8'6	23314	20'9	44528	40 55'4	89820	22
39	49'2	628	13'7	4153	10'1	11314	11'6	23575	30'0	45010	42 14'6	90947	21
40	49'4	660	14'3	4240	11'4	11470	14'6	23839	39'3	45499	43 38'0	92079	20
41	4°49'6	694	5°14'9	4328	6°12'8	11628	8°17'6	24105	13°48'9	45993	45° 5'9	93214	19
42	49'8	728	15'6	4417	14'2	11787	20'8	24374	58'7	46494	46 38'6	94351	18
43	50'1	764	16'3	4507	15'6	11948	23'9	24645	14 8'8	47001	48 16'3	95484	17
44	50'3	800	16'9	4599	17'0	12110	27'1	24919	19'1	47515	49 59'2	96610	16
45	50'6	837	17'6	4691	18'4	12273	30'4	25195	29'6	48035	51 47'6	97723	15
46	4°50'8	875	5°18'3	4784	6°19'9	12438	8°33'7	25474	14°40'5	48561	53°41'7	98820	14
47	51'1	913	19'0	4878	21'4	12605	37'1	25755	51'6	49094	55 41'7	99893	13
48	51'3	953	19'7	4973	22'8	12772	40'5	26039	15 3'0	49635	57 47'7	100938	12
49	51'6	993	20'4	5069	24'3	12941	43'9	26325	14'8	50183	59 59'9	101948	11
50	51'9	1035	21'1	5167	25'8	13112	47'5	26615	26'8	50738	62 18'2	102907	10
51	4°52'2	1077	5°21'8	5265	6°27'4	13285	8°51'1	26907	15°39'2	51300	64°42'6	103816	9
52	52'5	1120	22'6	5365	28'9	13458	54'7	27201	51'9	51869	67 13'0	104664	8
53	52'8	1163	23'3	5465	30'5	13633	58'4	27498	16 5'0	52446	69 49'2	105439	7
54	53'1	1208	24'1	5566	32'1	13810	9 2'2	27798	18'5	53032	72 30'8	106139	6
55	53'4	1254	24'8	5669	33'7	13988	6'0	28102	32'3	53626	75 17'4	106745	5
56	4°53'7	1300	5°25'6	5772	6°35'4	14168	9° 9'9	28407	16°46'6	54227	78° 8'3	107253	4
57	54'0	1348	26'4	5877	37'0	14349	13'8	28716	17 1'2	54837	81 2'9	107659	3
58	54'3	1396	27'2	5983	38'7	14532	17'9	29028	16'3	55455	84 0'3	107953	2
59	54'7	1445	28'0	6089	40'4	14717	22'0	29343	31'9	56083	86 59'6	108132	1
60	55'0	1495	28'8	6197	42'1	14903	26'1	29661	48'0	56719	90 0'0	108193	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	5° 0' 0	0	5°10' 5	1494	5°46' 1	6193	7° 3' 2	14887	9°55' 5	29615	18°40' 6	56516	60
1	0' 0	0	10' 9	1544	47' 0	6301	5' 0	15074	59' 9	29932	57' 9	57155	59
2	0' 0	2	11' 3	1596	47' 9	6411	6' 9	15263	10 4' 5	30257	19 15' 6	57805	58
3	0' 0	4	11' 6	1649	48' 8	6522	8' 8	15455	9' 1	30584	34' 0	58460	57
4	0' 0	7	12' 0	1702	49' 7	6634	10' 7	15646	13' 8	30911	52' 9	59128	56
5	0' 1	10	12' 4	1757	50' 6	6748	12' 6	15841	18' 5	31245	20 12' 5	59805	55
6	5° 0' 1	15	5°12' 8	1811	5°51' 5	6862	7°14' 6	16036	10°23' 4	31582	20°32' 7	60493	54
7	0' 1	20	13' 2	1868	52' 5	6977	16' 6	16233	28' 3	31921	53' 5	61189	53
8	0' 2	26	13' 6	1925	53' 4	7093	18' 6	16433	33' 4	32264	21 15' 1	61898	52
9	0' 2	33	14' 1	1983	54' 4	7211	20' 7	16634	38' 5	32609	37' 5	62617	51
10	0' 3	41	14' 5	2042	55' 3	7331	22' 7	16835	43' 7	32958	22 0' 6	63345	50
11	5° 0' 3	49	5°14' 9	2101	5°56' 3	7450	7°24' 8	17040	10°49' 0	33313	22°24' 5	64086	49
12	0' 4	59	15' 4	2162	57' 3	7571	26' 9	17246	54' 5	33669	49' 3	64838	48
13	0' 5	69	15' 8	2224	58' 3	7693	29' 1	17455	11 0' 0	34029	23 15' 0	65600	47
14	0' 6	80	16' 3	2286	59' 4	7816	31' 3	17664	5' 6	34395	41' 6	66376	46
15	0' 6	92	16' 7	2350	6 0' 4	7943	33' 5	17875	11' 4	34763	24 9' 2	67162	45
16	5° 0' 7	105	5°17' 2	2413	6° 1' 4	8068	7°35' 8	18088	11°17' 2	35133	24°37' 9	67962	44
17	0' 8	119	17' 7	2479	2' 5	8195	38' 0	18304	23' 2	35509	25 7' 7	68774	43
18	0' 9	133	18' 2	2545	3' 6	8323	40' 3	18521	29' 2	35889	38' 7	69596	42
19	1' 0	148	18' 6	2611	4' 7	8452	42' 7	18740	35' 4	36272	26 10' 9	70434	41
20	1' 1	164	19' 1	2679	5' 8	8582	45' 1	18959	41' 8	36660	44' 4	71286	40
21	5° 1' 3	181	5°19' 7	2749	6° 6' 9	8715	7°47' 5	19183	11°48' 2	37052	27°19' 3	72149	39
22	1' 4	199	20' 2	2818	8' 0	8848	49' 9	19408	54' 8	37448	55' 6	73026	38
23	1' 5	218	20' 7	2889	9' 2	8982	52' 4	19634	12 1' 5	37846	28 33' 5	73916	37
24	1' 6	237	21' 2	2961	10' 3	9118	54' 9	19862	8' 4	38252	29 13' 0	74823	36
25	1' 8	257	21' 8	3034	11' 5	9254	57' 4	20093	15' 4	38663	54' 2	75740	35
26	5° 1' 9	278	5°22' 3	3106	6°12' 7	9392	8° 0' 0	20325	12°22' 5	39075	30°37' 3	76673	34
27	2' 1	300	22' 9	3181	13' 9	9531	2' 6	20561	29' 8	39494	31 22' 3	77618	33
28	2' 2	322	23' 4	3256	15' 1	9672	5' 3	20797	37' 3	39915	32 9' 3	78580	32
29	2' 4	345	24' 0	3333	16' 3	9814	8' 0	21036	44' 9	40342	58' 5	79553	31
30	2' 6	370	24' 6	3410	17' 6	9957	10' 7	21277	52' 7	40776	33 50' 0	80534	30
31	5° 2' 8	395	5°25' 2	3489	6°18' 8	10101	8°13' 5	21521	13° 0' 6	41213	34°43' 9	81535	29
32	2' 9	421	25' 8	3567	20' 1	10246	16' 3	21767	8' 7	41655	35 40' 4	82550	28
33	3' 1	448	26' 4	3648	21' 4	10393	19' 1	22013	17' 1	42103	36 39' 7	83574	27
34	3' 3	476	27' 0	3729	22' 7	10541	22' 0	22263	25' 6	42555	37 41' 9	84614	26
35	3' 5	505	27' 6	3811	24' 0	10691	25' 0	22513	34' 4	43014	38 47' 2	85657	25
36	5° 3' 7	534	5°28' 2	3894	6°25' 4	10842	8°28' 0	22769	13°43' 2	43477	39°55' 7	86712	24
37	3' 9	564	28' 9	3979	26' 7	10994	31' 0	23025	52' 3	43944	41 7' 7	87775	23
38	4' 2	595	29' 5	4063	28' 1	11147	34' 1	23283	14 1' 6	44419	42 23' 4	88845	22
39	4' 4	628	30' 2	4150	29' 5	11302	37' 2	23545	11' 1	44898	43 42' 9	89924	21
40	4' 6	659	30' 8	4236	30' 9	11458	40' 4	23807	20' 9	45384	45 6' 6	91001	20
41	5° 4' 8	693	5°31' 5	4325	6°32' 4	11616	8°43' 6	24073	14°30' 9	45876	46°34' 5	92082	19
42	5' 1	727	32' 2	4414	33' 8	11775	46' 8	24340	41' 2	46374	48 6' 9	93153	18
43	5' 3	763	32' 9	4504	35' 3	11936	50' 2	24612	51' 7	46877	49 44' 0	94224	17
44	5' 6	799	33' 6	4595	36' 7	12097	53' 5	24884	15 2' 5	47387	51 26' 0	95284	16
45	5' 8	836	34' 3	4687	38' 2	12261	56' 9	25159	13' 5	47905	53 13' 2	96330	15
46	5° 6' 1	874	5°35' 0	4780	6°39' 8	12425	9° 0' 4	25438	15°24' 9	48427	55° 5' 6	97361	14
47	6' 4	913	35' 7	4874	41' 3	12591	4' 0	25718	36' 5	48957	57 3' 4	98358	13
48	6' 7	952	36' 5	4969	42' 9	12759	7' 5	26001	48' 5	49492	59 6' 7	99328	12
49	7' 0	993	37' 2	5066	44' 4	12928	11' 2	26289	16 0' 7	50038	61 15' 6	100258	11
50	7' 2	1033	38' 0	5162	46' 0	13098	14' 9	26577	13' 3	50587	63 30' 0	101153	10
51	5° 7' 5	1076	5°38' 8	5261	6°47' 7	13271	9°18' 7	26868	16°26' 3	51146	65°49' 9	101987	9
52	7' 8	1119	39' 5	5360	49' 3	13444	22' 5	27161	39' 6	51708	68 15' 2	102771	8
53	8' 2	1163	40' 3	5460	51' 0	13619	26' 4	27458	53' 2	52282	70 45' 5	103474	7
54	8' 5	1208	41' 1	5561	52' 6	13796	30' 3	27758	17 7' 3	52865	73 20' 6	104105	6
55	8' 8	1253	41' 9	5664	54' 3	13974	34' 4	28060	21' 7	53452	75 59' 9	104662	5
56	5° 9' 1	1299	5°42' 7	5768	6°56' 1	14154	9°38' 4	28363	17°36' 6	54048	78°43' 1	105127	4
57	9' 5	1347	43' 6	5872	57' 8	14335	42' 6	28671	51' 9	54653	81 29' 4	105490	3
58	9' 8	1395	44' 4	5977	59' 6	14517	46' 8	28983	18 7' 6	55263	84 18' 2	105754	2
59	10' 2	1444	45' 3	6084	7 1' 4	14702	51' 1	29297	23' 9	55887	87 8' 7	105913	1
60	10' 5	1494	46' 1	6193	3' 2	14887	55' 5	29615	40' 6	56516	90 0' 0	105970	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 ^H		1 ^H		2 ^H		3 ^H		4 ^H		5 ^H		
0	5°15·0	0	5°26·1	1493	6° 3·3	6186	7°24·2	14870	10°24·8	29564	19°32·8	56305	60
1	15·0	0	26·4	1543	4·3	6295	26·2	15057	29·5	29884	50·7	56938	59
2	15·0	2	26·8	1595	5·2	6405	28·1	15246	34·2	30205	20 9·2	57579	58
3	15·0	4	27·2	1647	6·2	6516	30·1	15437	39·0	30531	28·2	58229	57
4	15·0	7	27·6	1700	7·1	6628	32·1	15629	43·9	30859	47·9	58889	56
5	15·1	10	28·0	1755	8·1	6741	34·1	15823	48·9	31191	21 8·2	59558	55
6	5°15·1	15	5°28·4	1810	6° 9·1	6855	7°36·2	16018	10°54·0	31525	21°29·1	60236	54
7	15·1	20	28·9	1866	10·0	6971	38·3	16215	59·2	31864	50·8	60924	53
8	15·2	26	29·3	1923	11·0	7087	40·4	16414	11 4·5	32205	22 13·1	61623	52
9	15·2	33	29·7	1981	12·0	7205	42·5	16614	9·8	32551	36·3	62332	51
10	15·3	41	30·2	2040	13·1	7323	44·7	16816	15·3	32899	23 0·2	63050	50
11	5°15·4	49	5°30·7	2100	6°14·1	7443	7°46·9	17020	11°20·9	33251	23°24·9	63781	49
12	15·4	59	31·1	2160	15·2	7564	49·1	17225	26·5	33606	50·6	64520	48
13	15·5	69	31·6	2222	16·2	7687	51·4	17433	32·3	33965	24 17·2	65272	47
14	15·6	80	32·1	2284	17·3	7810	53·7	17643	38·2	34328	44·7	66035	46
15	15·7	92	32·5	2347	18·4	7934	56·0	17854	44·2	34694	25 13·2	66808	45
16	5°15·8	105	5°33·0	2411	6°19·5	8060	7°58·4	18066	11°50·3	35065	25°42·8	67592	44
17	15·9	119	33·5	2477	20·6	8187	8 0·8	18282	56·5	35440	26 13·6	68391	43
18	16·0	133	34·1	2543	21·7	8315	3·2	18498	12 2·9	35817	45·5	69200	42
19	16·1	148	34·6	2609	22·9	8444	5·6	18716	9·4	36199	27 18·7	70022	41
20	16·2	164	35·1	2677	24·0	8575	8·1	18937	16·0	36585	53·2	70855	40
21	5°16·3	181	5°35·6	2746	6°25·2	8706	8°10·6	19159	12°22·7	36975	28°29·0	71701	39
22	16·4	199	36·2	2816	26·4	8839	13·2	19383	29·6	37369	29 6·4	72559	38
23	16·6	217	36·7	2886	27·6	8973	15·8	19609	36·6	37768	45·2	73429	37
24	16·7	237	37·3	2958	28·8	9109	18·4	19837	43·8	38170	30 25·8	74313	36
25	16·9	257	37·8	3031	30·0	9245	21·1	20067	51·1	38577	31 8·0	75209	35
26	5°17·0	278	5°38·4	3104	6°31·3	9383	8°23·8	20300	12°58·6	38989	31°52·1	76118	34
27	17·2	300	39·0	3178	32·5	9522	26·5	20534	13 6·2	39405	32 38·0	77037	33
28	17·4	322	39·6	3254	33·8	9662	29·3	20770	14·0	39826	33 26·1	77971	32
29	17·5	345	40·2	3330	35·1	9804	32·1	21008	22·0	40251	34 16·2	78916	31
30	17·7	370	40·8	3407	36·4	9947	35·0	21249	30·1	40682	35 8·7	79873	30
31	5°17·9	395	5°41·4	3485	6°37·7	10091	8°37·9	21491	13°38·4	41117	36° 3·5	80840	29
32	18·1	421	42·0	3565	39·1	10236	40·9	21736	46·9	41566	37 0·9	81820	28
33	18·3	448	42·7	3645	40·4	10383	43·9	21983	55·6	42001	38 1·0	82808	27
34	18·5	476	43·3	3726	41·8	10531	46·9	22232	14 4·5	42451	39 4·0	83806	26
35	18·7	504	44·0	3808	43·2	10680	50·0	22483	13·6	42907	40 9·9	84814	25
36	5°18·9	533	5°44·6	3891	6°44·6	10831	8°53·1	22736	14°22·9	43367	41°19·0	85825	24
37	19·1	564	45·3	3975	46·0	10983	56·3	22992	32·4	43833	42 31·5	86846	23
38	19·4	595	46·0	4060	47·5	11136	59·5	23250	42·1	44304	43 47·5	87871	22
39	19·6	626	46·7	4146	48·9	11291	9 2·8	23511	52·1	44782	45 7·2	88896	21
40	19·8	659	47·3	4233	50·4	11447	6·1	23773	15 2·3	45264	46 30·8	89923	20
41	5°20·1	693	5°48·1	4321	6°51·9	11604	9° 9·5	24038	15°12·7	45753	47°58·5	90947	19
42	20·3	727	48·8	4410	53·4	11763	12·9	24306	23·4	46247	49 30·4	91966	18
43	20·6	762	49·5	4500	54·9	11924	16·4	24576	34·4	46747	51 6·8	92977	17
44	20·9	799	50·2	4591	56·5	12085	19·9	24848	45·7	47254	52 47·8	93976	16
45	21·1	835	51·0	4683	58·1	12248	23·5	25123	57·1	47767	54 33·5	94957	15
46	5°21·4	873	5°51·7	4776	6°59·7	12413	9°27·1	25400	16° 9·0	48287	56°24·0	95918	14
47	21·7	912	52·5	4870	7 1·3	12578	30·8	25680	21·1	48812	58 19·6	96852	13
48	22·0	951	53·3	4965	2·9	12746	34·6	25962	33·6	49345	60 20·1	97757	12
49	22·3	992	54·1	5061	4·6	12914	38·4	26247	46·4	49884	62 25·8	98623	11
50	22·6	1033	54·9	5158	6·2	13085	42·3	26535	59·5	50429	64 36·4	99444	10
51	5°22·9	1075	5°55·7	5256	7° 7·9	13257	9°46·2	26825	17°13·0	50983	66°51·9	100216	9
52	23·2	1118	56·5	5355	9·7	13430	50·2	27119	26·8	51543	69 12·2	100932	8
53	23·6	1162	57·3	5455	11·4	13605	54·3	27414	41·0	52111	71 37·0	101581	7
54	23·9	1206	58·1	5557	13·2	13781	58·4	27713	55·7	52686	74 5·9	102163	6
55	24·2	1252	59·0	5659	15·0	13958	10 2·7	28014	18 10·7	53270	76 38·7	102666	5
56	5°24·6	1298	5°59·8	5762	7°16·8	14138	10° 6·9	28318	18°26·2	53861	79°14·7	103087	4
57	24·9	1346	6 0·7	5867	18·6	14319	11·3	28625	42·1	54459	81 53·6	103419	3
58	25·3	1394	1·6	5972	20·5	14501	15·7	28935	58·5	55066	84 34·5	103674	2
59	25·7	1443	2·5	6079	22·3	14685	20·2	29248	19 15·4	55681	87 16·9	103816	1
60	26·1	1493	3·3	6186	24·2	14870	24·8	29564	32·8	56305	90 0·0	103857	0
	11 ^H	10 ^H	9 ^H	8 ^H	7 ^H	6 ^H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	5°30.0	0	5°41.6	1491	6°20.7	6180	7°45.3	14853	10°54.0	29514	20°24.4	56086	60
1	30.0	0	42.0	1542	21.6	6290	47.3	15040	58.9	29831	43.0	56711	59
2	30.0	2	42.4	1593	22.6	6399	49.3	15228	11 3.8	30151	21 2.1	57347	58
3	30.0	4	42.8	1646	23.6	6510	51.4	15418	8.9	30475	21.9	57988	57
4	30.0	7	43.2	1700	24.6	6622	53.5	15611	14.0	30804	42.2	58639	56
5	30.1	10	43.6	1753	25.6	6734	55.6	15804	19.2	31134	22 3.2	59299	55
6	5°30.1	15	5°44.1	1809	6°26.6	6848	7°57.8	15999	11°24.5	31468	22°24.9	59969	54
7	30.2	20	44.5	1865	27.6	6964	8 0.0	16195	29.9	31805	47.3	60651	53
8	30.2	26	45.0	1922	28.7	7080	2.2	16393	35.4	32146	23 10.4	61340	52
9	30.3	33	45.4	1979	29.7	7197	4.4	16594	41.0	32490	34.3	62037	51
10	30.4	41	45.9	2038	30.8	7316	6.7	16795	46.7	32837	59.0	62747	50
11	5°30.4	49	5°46.4	2098	6°31.9	7435	8° 9.0	16998	11°52.6	33185	24°24.6	63464	49
12	30.5	59	46.9	2159	33.0	7557	11.3	17205	58.5	33540	51.0	64194	48
13	30.5	69	47.4	2220	34.1	7679	13.7	17411	12 4.5	33899	25 18.4	64934	47
14	30.6	80	47.9	2282	35.2	7802	16.1	17621	10.7	34258	46.8	65682	46
15	30.7	92	48.4	2346	36.3	7926	18.5	17831	16.9	34624	26 16.1	66443	45
16	5°30.8	105	5°48.9	2410	6°37.5	8052	8°21.0	18042	12°23.3	34994	26°46.6	67214	44
17	30.9	119	49.4	2474	38.7	8179	23.5	18257	29.8	35366	27 18.2	67999	43
18	31.0	133	49.9	2541	39.8	8306	26.0	18473	36.4	35741	51.1	68793	42
19	31.1	148	50.5	2607	41.0	8435	28.6	18692	43.1	36123	28 25.1	69596	41
20	31.3	164	51.0	2675	42.2	8566	31.2	18912	50.1	36507	29 0.5	70412	40
21	5°31.4	181	5°51.6	2744	6°43.5	8697	8°33.8	19133	12°57.1	36894	29°37.3	71237	39
22	31.5	199	52.2	2813	44.7	8830	36.5	19357	13 4.3	37286	30 15.6	72077	38
23	31.7	217	52.7	2884	46.0	8963	39.2	19583	11.6	37685	55.4	72931	37
24	31.8	236	53.3	2956	47.2	9099	41.9	19811	19.1	38086	31 36.8	73794	36
25	32.0	256	53.9	3028	48.5	9236	44.7	20041	26.8	38489	32 19.9	74666	35
26	5°32.1	277	5°54.5	3101	6°49.8	9373	8°47.6	20272	13°34.5	38899	33° 4.9	75548	34
27	32.3	299	55.1	3175	51.2	9512	50.4	20506	42.5	39313	51.8	76444	33
28	32.5	322	55.7	3251	52.5	9652	53.3	20741	50.6	39732	34 40.7	77350	32
29	32.6	345	56.4	3327	53.8	9794	56.3	20979	58.9	40154	35 31.7	78269	31
30	32.8	370	57.0	3404	55.2	9936	59.3	21220	14 7.4	40584	36 25.0	79194	30
31	5°33.0	395	5°57.6	3482	6°56.6	10081	9° 2.3	21462	14°16.1	41015	37°20.6	80131	29
32	33.2	421	58.3	3562	58.0	10226	5.4	21706	24.9	41455	38 18.7	81080	28
33	33.4	447	59.0	3642	59.4	10372	8.5	21951	34.0	41896	39 19.5	82034	27
34	33.6	475	59.6	3723	7 0.9	10519	11.7	22200	43.2	42344	40 23.0	82995	26
35	33.9	504	6 0.3	3804	2.3	10669	14.9	22451	52.7	42796	41 29.5	83961	25
36	5°34.1	533	6° 1.0	3888	7° 3.8	10819	9°18.2	22703	15° 2.4	43254	42°39.0	84936	24
37	34.3	563	1.7	3971	5.3	10971	21.5	22959	12.3	43718	43 51.8	85912	23
38	34.6	594	2.4	4057	6.8	11125	24.9	23216	22.4	44184	45 7.9	86894	22
39	34.8	626	3.1	4143	8.3	11279	28.3	23476	32.8	44659	46 27.6	87871	21
40	35.1	658	3.9	4229	9.8	11434	31.8	23738	43.4	45138	47 51.0	88848	20
41	5°35.3	692	6° 4.6	4317	7°11.4	11591	9°35.3	24002	15°54.3	45625	49°18.3	89820	19
42	35.6	726	5.4	4406	13.0	11750	38.9	24269	16 5.4	46115	50 49.6	90786	18
43	35.9	762	6.1	4495	14.6	11910	42.5	24539	16.9	46612	52 25.0	91741	17
44	36.1	798	6.9	4587	16.2	12072	46.2	24810	28.6	47115	54 4.7	92684	16
45	36.4	835	7.7	4678	17.9	12234	49.9	25083	40.6	47626	55 48.9	93607	15
46	5°36.7	872	6° 8.5	4772	7°19.6	12399	9°53.8	25360	16°52.9	48139	57°37.5	94503	14
47	37.0	911	9.3	4865	21.2	12565	57.6	25640	17 5.5	48662	59 30.7	95377	13
48	37.3	951	10.1	4960	23.0	12732	10 1.6	25922	18.4	49190	61 28.4	96218	12
49	37.6	991	10.9	5056	24.7	12901	5.5	26205	31.7	49725	63 30.9	97031	11
50	38.0	1032	11.7	5154	26.4	13070	9.6	26493	45.3	50266	65 37.8	97788	10
51	5°38.3	1073	6°12.6	5251	7°28.2	13242	10°13.7	26783	17°59.3	50816	67°49.1	98499	9
52	38.6	1117	13.4	5350	30.0	13415	17.9	27074	18 13.7	51369	70 4.6	99160	8
53	39.0	1161	14.3	5450	31.8	13588	22.2	27369	28.5	51934	72 24.2	99762	7
54	39.3	1206	15.2	5552	33.7	13765	26.5	27666	43.7	52504	74 47.5	100296	6
55	39.7	1250	16.1	5653	35.6	13943	30.9	27968	59.3	53081	77 14.1	100755	5
56	5°40.0	1297	3°16.9	5756	7°37.4	14120	10°35.4	28270	19°15.4	53667	79°43.6	101140	4
57	40.4	1344	17.9	5861	39.4	14301	39.9	28578	31.9	54259	82 15.5	101445	3
58	40.8	1393	18.8	5967	41.3	14484	44.5	28885	48.9	54858	84 49.3	101672	2
59	41.2	1442	19.7	6073	43.3	14667	49.2	29197	20 6.4	55469	87 24.3	101803	1
60	41.6	1491	20.7	6180	45.3	14853	54.0	29514	24.4	56086	90 0.0	101843	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	5°45'0	0	5°57'1	1490	6°37'9	6174	8° 6'3	14835	11°23'2	29459	21°15'5	55858	60
1	45'0	0	57'5	1541	38'9	6283	8' 4	15021	28'3	29776	34'7	56477	59
2	45'0	2	57'9	1592	39'9	6393	10'5	15209	33'4	30096	54'5	57103	58
3	45'0	4	58'4	1645	41'0	6503	12'7	15399	38'7	30418	22 14'9	57738	57
4	45'1	7	58'8	1698	42'0	6615	14'9	15590	44'0	30744	35'9	58382	56
5	45'1	10	59'3	1752	43'1	6728	17'1	15784	49'4	31074	57'6	59034	55
6	5°45'1	15	5°59'7	1807	6°44'1	6842	8°19'3	15978	11°55'0	31407	23°20'0	59696	54
7	45'2	20	6 0'2	1863	45'2	6957	21'6	16174	12 0'6	31742	43'0	60365	53
8	45'2	26	0'7	1920	46'3	7073	23'9	16373	6'3	32081	24 1'6'9	61044	52
9	45'3	33	1'1	1978	47'4	7190	26'3	16573	12'2	32424	31'5	61733	51
10	45'3	41	1'6	2036	48'5	7309	28'6	16774	18'1	32770	57'0	62431	50
11	5°45'4	49	6° 2'1	2096	6°49'6	7428	8°31'0	16977	12°24'2	33119	25°23'3	63138	49
12	45'5	59	2'6	2156	50'8	7549	33'5	17182	30'3	33471	50'5	63855	48
13	45'6	69	3'1	2218	51'9	7671	35'9	17389	36'6	33828	26 18'7	64583	47
14	45'6	80	3'7	2280	53'1	7794	38'4	17597	43'0	34188	47'8	65319	46
15	45'7	92	4'2	2343	54'3	7918	41'0	17807	49'5	34551	27 18'0	66066	45
16	5°45'8	105	6° 4'7	2407	6°55'5	8044	8°43'6	18019	12°56'2	34918	27°49'3	66824	44
17	45'9	119	5'3	2472	56'7	8170	46'2	18233	13 3'0	35289	28 21'7	67592	43
18	46'1	133	5'8	2538	58'0	8298	48'8	18449	9'9	35664	55'4	68370	42
19	46'2	148	6'4	2605	59'2	8427	51'5	18666	16'9	36043	29 30'3	69159	41
20	46'3	164	7'0	2673	7 0'5	8557	54'2	18886	24'1	36425	30 6'5	69957	40
21	5°46'4	181	6° 7'6	2741	7° 1'8	8688	8°56'9	19107	13°31'4	36812	30°44'1	70766	39
22	46'6	198	8'2	2811	3'1	8821	59'7	19331	38'9	37203	31 23'2	71587	38
23	46'7	217	8'8	2881	4'4	8955	9 2'6	19556	46'5	37597	32 3'9	72417	37
24	46'9	236	9'4	2953	5'7	9089	5'4	19783	54'3	37996	46'1	73255	36
25	47'1	256	10'0	3025	7'0	9226	8'3	20012	14 2'2	38399	33 30'1	74108	35
26	5°47'2	277	6°10'6	3098	7° 8'4	9363	9°11'3	20243	14°10'3	38807	34°15'9	74971	34
27	47'4	299	11'2	3173	9'8	9502	14'3	20476	18'6	39218	35 3'5	75841	33
28	47'6	322	11'9	3248	11'2	9642	17'3	20712	27'1	39634	53'1	76722	32
29	47'8	345	12'5	3324	12'6	9783	20'4	20949	35'7	40056	36 44'9	77611	31
30	48'0	369	13'2	3401	14'0	9925	23'5	21188	44'5	40481	37 38'9	78509	30
31	5°48'2	394	6°13'9	3479	7°15'5	10069	9°26'7	21429	14°53'5	40911	38°35'2	79415	29
32	48'4	420	14'6	3558	16'9	10214	29'9	21673	15 2'7	41347	39 33'9	80329	28
33	48'6	447	15'3	3638	18'4	10360	33'2	21919	12'1	41787	40 35'2	81250	27
34	48'8	475	16'0	3719	19'9	10508	36'5	22167	21'8	42232	41 39'2	82176	26
35	49'0	503	16'7	3801	21'4	10657	39'9	22417	31'6	42681	42 46'0	83106	25
36	5°49'3	532	6°17'4	3884	7°23'0	10807	9°43'3	22669	15°41'7	43136	43°55'8	84041	24
37	49'5	563	18'2	3968	24'6	10959	46'7	22924	52'0	43596	45 8'7	84976	23
38	49'8	594	18'9	4053	26'1	11112	50'2	23180	16 2'5	44062	46 24'8	85912	22
39	50'0	625	19'6	4138	27'7	11266	53'8	23439	13'3	44533	47 44'3	86846	21
40	50'3	658	20'4	4225	29'3	11422	57'4	23701	24'3	45009	49 7'3	87776	20
41	5°50'6	692	6°21'2	4313	7°30'9	11579	10° 1'1	23965	16°35'6	45491	50°34'0	88701	19
42	50'8	726	21'9	4402	32'6	11737	4'8	24231	47'2	45979	52 4'5	89616	18
43	51'1	761	22'7	4491	34'3	11897	8'6	24499	59'0	46472	53 38'9	90520	17
44	51'4	797	23'5	4582	36'0	12058	12'5	24770	17 11'2	46971	55 17'3	91407	16
45	51'7	834	24'4	4674	37'7	12221	16'4	25043	23'6	47476	56 59'7	92275	15
46	5°52'0	872	6°25'2	4767	7°39'4	12384	10°20'4	25319	17°36'4	47988	58°46'4	93122	14
47	52'3	910	26'0	4861	41'2	12550	24'4	25597	49'5	48505	60 37'2	93940	13
48	52'7	950	26'9	4955	43'0	12717	28'5	25878	18 2'9	49029	62 32'2	94725	12
49	53'0	990	27'8	5051	44'8	12885	32'6	26162	16'7	49560	64 31'4	95477	11
50	53'4	1031	28'6	5148	46'6	13055	36'9	26448	30'8	50097	66 34'7	96184	10
51	5°53'7	1073	6°29'5	5246	7°48'5	13226	10°41'2	26736	18°45'3	50641	68°42'0	96846	9
52	54'0	1116	30'4	5345	50'4	13398	45'5	27028	19 0'2	51192	70 53'1	97454	8
53	54'4	1160	31'3	5445	52'3	13573	50'0	27322	15'6	51749	73 7'7	98007	7
54	54'7	1204	32'2	5546	54'2	13748	54'5	27619	31'3	52314	75 25'7	98499	6
55	55'1	1250	33'1	5648	56'1	13926	59'1	27918	47'5	52886	77 46'6	98922	5
56	5°55'5	1296	6°34'1	5751	7°58'1	14104	11° 3'7	28221	20° 4'1	53465	80°10'0	99275	4
57	55'9	1343	35'0	5855	8 0'1	14284	8'5	28526	21'2	54052	82 35'6	99554	3
58	56'3	1391	36'0	5961	2'1	14466	13'4	28834	38'9	54647	85 2'8	99755	2
59	56'7	1440	36'9	6067	4'2	14650	18'2	29145	56'9	55249	87 31'1	99876	1
60	57'1	1490	37'9	6174	6'3	14835	23'2	29459	21 15'5	55858	90 0'0	99918	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H			1 H			2 H			3 H			4 H			5 H			
0	6° 0'0	0	6°12'6	1489	6°55'2	6168	8°27'3	14815	11°52'3	29403	22° 6'1	55624	60						
1	0'0	0	13'0	1540	56'2	6276	29'5	15002	57'5	29719	25'9	56235	59						
2	0'0	2	13'5	1590	57'3	6385	31'7	15190	12 2'9	30037	46'3	56853	58						
3	0'0	4	13'9	1643	58'4	6496	33'9	15379	8'4	30360	23 7'3	57482	57						
4	0'1	7	14'4	1696	59'4	6608	36'2	15570	13'9	30685	29'0	58116	56						
5	0'1	10	14'9	1751	7 0'5	6721	38'5	15763	19'6	31013	51'3	58761	55						
6	6° 0'1	15	6°15'3	1805	7° 1'6	6835	8°40'9	15957	12°25'3	31343	24°14'3	59414	54						
7	0'2	20	15'8	1861	2'8	6950	43'3	16152	31'2	31679	38'1	60071	53						
8	0'2	26	16'3	1918	3'9	7066	45'7	16351	37'1	32016	25 2'6	60742	52						
9	0'3	33	16'8	1976	5'1	7183	48'1	16550	43'2	32358	27'9	61420	51						
10	0'3	41	17'3	2034	6'2	7301	50'6	16751	49'4	32702	54'1	62106	50						
11	6° 0'4	49	6°17'9	2094	7° 7'4	7420	8°53'1	16953	12°55'7	33049	26°21'1	62805	49						
12	0'5	59	18'4	2154	8'6	7541	55'6	17158	13 2'1	33400	49'1	63510	48						
13	0'6	69	18'9	2215	9'8	7663	58'2	17365	8'6	33754	27 18'0	64224	47						
14	0'7	80	19'5	2278	11'0	7785	9 0'8	17573	15'3	34113	47'9	64950	46						
15	0'8	92	20'0	2341	12'3	7909	3'4	17783	22'1	34474	28 18'8	65682	45						
16	6° 0'9	105	6°20'6	2405	7°13'5	8036	9° 6'1	17994	13°29'0	34841	28°50'9	66424	44						
17	1'0	119	21'2	2470	14'8	8162	8'8	18207	36'0	35210	29 24'0	67179	43						
18	1'1	132	21'7	2535	16'1	8289	11'6	18422	43'2	35583	58'5	67940	42						
19	1'2	148	22'3	2602	17'4	8418	14'4	18639	50'5	35959	30 34'1	68711	41						
20	1'4	164	22'9	2670	18'7	8548	17'2	18858	58'0	36341	31 11'1	69493	40						
21	6° 1'5	180	6°23'5	2738	7°20'0	8678	9°20'1	19079	14° 5'6	36727	31°49'5	70284	39						
22	1'7	198	24'1	2808	21'4	8811	23'0	19302	13'3	37113	32 29'4	71085	38						
23	1'8	217	24'8	2879	22'7	8945	25'9	19527	21'2	37506	33 10'8	71894	37						
24	2'0	236	25'4	2950	24'1	9079	28'9	19754	29'3	37904	53'8	72717	36						
25	2'1	256	26'0	3023	25'5	9215	31'9	19982	37'6	38305	34 38'5	73544	35						
26	6° 2'3	277	6°26'7	3096	7°27'0	9353	9°35'0	20213	14°46'0	38710	35°25'0	74382	34						
27	2'5	299	27'4	3170	28'4	9491	38'1	20445	54'6	39119	36 13'3	75230	33						
28	2'7	321	28'0	3245	29'8	9631	41'3	20681	15 3'3	39534	37 3'6	76083	32						
29	2'9	345	28'7	3321	31'3	9772	44'5	20918	12'3	39953	56'0	76946	31						
30	3'1	369	29'4	3398	32'8	9915	47'7	21157	21'5	40374	38 50'5	77819	30						
31	6° 3'3	394	6°30'1	3476	7°34'3	10057	9°51'0	21397	15°30'8	40803	39°47'3	78694	29						
32	3'5	420	30'8	3555	35'8	10202	54'4	21640	40'4	41236	40 46'5	79575	28						
33	3'7	447	31'6	3634	37'4	10349	57'8	21885	50'1	41673	41 48'2	80463	27						
34	4'0	474	32'3	3715	38'9	10496	10 1'2	22133	16 0'1	42115	42 52'5	81356	26						
35	4'2	503	33'0	3797	40'5	10645	4'7	22381	10'3	42561	43 59'6	82251	25						
36	6° 4'5	532	6°33'8	3880	7°42'1	10795	10° 8'3	22632	16°20'7	43014	45° 9'4	83145	24						
37	4'7	562	34'5	3964	43'8	10946	11'9	22887	31'4	43470	46 22'3	84040	23						
38	5'0	593	35'3	4048	45'4	11099	15'5	23143	42'3	43934	47 38'3	84931	22						
39	5'2	625	36'1	4134	47'1	11253	19'2	23402	53'5	44400	48 57'5	85825	21						
40	5'5	657	36'9	4221	48'7	11408	23'0	23662	17 4'9	44875	50 20'0	86713	20						
41	6° 5'8	691	6°37'7	4309	7°50'5	11565	10°26'9	23925	17°16'7	45352	51°46'0	87594	19						
42	6'1	725	38'5	4397	52'2	11723	30'7	24191	28'6	45836	53 15'5	88459	18						
43	6'4	760	39'4	4486	53'9	11883	34'7	24458	40'9	46325	54 48'8	89313	17						
44	6'7	796	40'2	4578	55'7	12043	38'7	24729	53'5	46821	56 25'7	90152	16						
45	7'0	834	41'0	4669	57'5	12205	42'8	25001	18 6'4	47324	58 6'4	90970	15						
46	6° 7'3	871	6°41'9	4762	7°59'3	12369	10°46'9	25275	18°19'6	47829	59°51'0	91762	14						
47	7'6	909	42'8	4855	8 1'1	12534	51'1	25554	33'2	48345	61 39'5	92532	13						
48	8'0	949	43'7	4950	3'0	12701	55'4	25834	47'1	48864	63 31'8	93270	12						
49	8'3	989	44'6	5046	4'8	12869	59'7	26116	19 1'3	49391	65 27'9	93966	11						
50	8'7	1030	45'5	5143	6'8	13039	11 4'1	26401	15'9	49922	67 27'7	94625	10						
51	6° 9'0	1072	6°46'4	5241	8° 8'7	13209	11° 8'6	26690	19°31'0	50461	69°31'1	95239	9						
52	9'4	1115	47'3	5340	10'7	13382	13'1	26980	46'4	51006	71 37'9	95806	8						
53	9'8	1159	48'2	5439	12'7	13556	17'7	27273	20 2'2	51558	73 47'9	96316	7						
54	10'2	1204	49'2	5541	14'7	13731	22'4	27569	18'5	52118	76 0'9	96770	6						
55	10'5	1248	50'2	5643	16'7	13908	27'2	27867	35'2	52683	78 16'5	97162	5						
56	6°10'9	1295	6°51'1	5746	8°18'8	14087	11°32'0	28169	20°52'4	53257	80°34'3	97480	4						
57	11'3	1342	52'1	5850	20'9	14266	37'0	28474	21 10'0	53838	82 54'1	97733	3						
58	11'8	1390	53'1	5955	23'0	14447	42'0	28780	28'2	54428	85 15'2	97926	2						
59	12'2	1439	54'2	6060	25'2	14631	47'1	29091	46'9	55021	87 37'4	98040	1						
60	12'6	1489	55'2	6168	27'3	14815	52'3	29403	22 6'1	55624	90 0'0	98077	0						
	11 H	10 H	9 H	8 H	7 H	6 H	m												

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	6°15.0	0	6°28.1	1487	7°12.4	6161	8°48.2	14796	12°21.3	29344	22°56.8	55383	60
1	15.0	0	28.6	1538	13.5	6270	50.5	14982	26.8	29659	23 16.5	55986	59
2	15.0	2	29.0	1589	14.6	6379	52.8	15169	32.3	29977	37.5	56597	58
3	15.0	4	29.5	1641	15.7	6489	55.2	15358	38.0	30297	59.1	57216	57
4	15.1	7	30.0	1695	16.9	6600	57.6	15549	43.8	30621	24 21.4	57843	56
5	15.1	10	30.5	1749	18.0	6713	9 0.0	15741	49.6	30948	44.3	58478	55
6	6°15.1	15	6°31.0	1804	7°19.2	6827	9° 2.4	15935	12°55.6	31278	25° 8.0	59121	54
7	15.2	20	31.5	1860	20.3	6942	4.9	16130	13 1.7	31611	32.4	59772	53
8	15.2	26	32.0	1916	21.5	7058	7.4	16328	7.9	31947	57.6	60431	52
9	15.3	33	32.5	1974	22.7	7175	9.9	16527	14.2	32287	26 23.5	61099	51
10	15.4	41	33.0	2032	23.9	7293	12.5	16727	20.6	32629	50.4	61775	50
11	6°15.4	49	6°33.6	2092	7°25.1	7412	9°15.1	16930	13°27.1	32975	27°18.1	62460	49
12	15.5	59	34.1	2152	26.4	7533	17.7	17134	33.8	33326	46.7	63154	48
13	15.6	69	34.7	2213	27.7	7654	20.4	17340	40.5	33679	28 16.3	63856	47
14	15.7	80	35.3	2276	28.9	7777	23.1	17547	47.4	34036	46.9	64567	46
15	15.8	92	35.8	2339	30.2	7901	25.8	17757	54.5	34396	29 18.5	65287	45
16	6°15.9	105	6°36.4	2402	7°31.5	8026	9°28.6	17968	14° 1.6	34760	29°51.3	66016	44
17	16.0	118	37.0	2467	32.8	8152	31.4	18181	8.9	35128	30 25.2	66753	43
18	16.2	132	37.6	2533	34.2	8280	34.3	18396	16.4	35499	31 0.3	67500	42
19	16.3	148	38.2	2600	35.5	8408	37.2	18612	24.0	35874	36.6	68257	41
20	16.4	164	38.9	2667	36.9	8538	40.2	18831	31.5	36253	32 14.3	69020	40
21	6°16.6	180	6°39.5	2736	7°38.3	8669	9°43.1	19051	14°39.6	36636	32°53.4	69793	39
22	16.7	198	40.1	2805	39.7	8801	46.2	19273	47.6	37022	33 34.0	70575	38
23	16.9	217	40.8	2876	41.1	8934	49.2	19498	55.8	37413	34 16.1	71366	37
24	17.0	236	41.4	2947	42.6	9069	52.3	19724	15 4.2	37808	59.7	72165	36
25	17.2	256	42.1	3019	44.0	9205	55.5	19952	12.7	38206	35 45.1	72971	35
26	6°17.4	277	6°42.8	3092	7°45.5	9342	9°58.7	20182	15°21.5	38610	36°32.2	73786	34
27	17.6	299	43.5	3166	47.0	9480	10 1.9	20414	30.4	39017	37 21.1	74608	33
28	17.8	321	44.2	3241	48.5	9620	5.2	20648	39.5	39429	38 12.0	75438	32
29	18.0	344	44.9	3317	50.0	9760	8.5	20884	48.7	39845	39 4.9	76274	31
30	18.2	369	45.6	3394	51.6	9902	11.9	21123	58.2	40266	59.9	77115	30
31	6°18.4	394	6°46.4	3472	7°53.1	10046	10°15.3	21363	16° 7.9	40691	40°57.1	77962	29
32	18.7	420	47.1	3551	54.7	10190	18.8	21605	17.8	41120	41 56.7	78814	28
33	18.9	446	47.8	3631	56.3	10336	22.2	21850	27.9	41555	42 58.6	79671	27
34	19.1	474	48.6	3712	58.0	10483	25.9	22096	38.2	41994	44 3.1	80528	26
35	19.4	502	49.4	3793	59.6	10632	29.6	22345	48.8	42438	45 10.2	81388	25
36	6°19.6	532	6°50.2	3876	8° 1.3	10782	10°33.3	22596	16°59.6	42887	46°20.1	82248	24
37	19.9	562	51.0	3960	3.0	10933	37.0	22849	17 10.6	43341	47 32.8	83106	23
38	20.2	593	51.8	4044	4.7	11085	40.8	23104	21.9	43800	48 48.5	83963	22
39	20.5	624	52.6	4130	6.4	11239	44.7	23362	33.5	44264	50 7.3	84814	21
40	20.7	657	53.4	4217	8.2	11394	48.6	23622	45.3	44734	51 29.2	85657	20
41	6°21.0	690	6°54.3	4304	8° 9.9	11551	10°52.6	23884	17°57.4	45209	52°54.4	86492	19
42	21.3	725	55.1	4393	11.7	11709	56.6	24149	18 9.8	45689	54 22.9	87316	18
43	21.6	760	56.0	4482	13.5	11868	11 0.7	24416	22.5	46175	55 54.9	88123	17
44	22.0	796	56.8	4573	15.4	12028	4.9	24685	35.5	46667	57 30.3	88916	16
45	22.3	832	57.7	4664	17.3	12190	9.1	24957	48.9	47164	59 9.3	89686	15
46	6°22.6	870	6°58.6	4757	8°19.2	12354	11°13.4	25231	19° 2.5	47667	60°51.8	90436	14
47	23.0	909	59.5	4851	21.1	12519	17.7	25508	16.5	48176	62 37.9	91154	13
48	23.3	948	7 0.4	4945	23.0	12685	22.2	25787	30.9	48691	64 27.5	91845	12
49	23.7	988	1.4	5041	25.0	12853	26.7	26069	45.6	49213	66 20.5	92499	11
50	24.0	1029	2.3	5137	26.9	13022	31.2	26353	20 0.7	49740	68 17.0	93114	10
51	6°24.4	1071	7° 3.3	5235	8°29.0	13193	11°35.9	26640	20°16.2	50274	70°16.7	93686	9
52	24.8	1114	4.2	5334	31.0	13365	40.6	26930	32.1	50814	72 19.5	94209	8
53	25.2	1158	5.2	5434	33.1	13538	45.4	27221	48.4	51361	74 25.1	94684	7
54	25.6	1202	6.2	5534	35.1	13713	50.3	27517	21 5.2	51915	76 33.4	95107	6
55	26.0	1247	7.2	5636	37.3	13890	55.2	27814	22.4	52475	78 44.1	95465	5
56	6°26.4	1294	7° 8.2	5739	8°39.4	14068	12° 0.3	28115	21°40.2	53042	80°56.7	95766	4
57	26.8	1341	9.3	5843	41.6	14248	5.4	28418	58.4	53616	83 11.1	96002	3
58	27.2	1389	10.3	5948	43.8	14429	10.6	28724	22 17.1	54198	85 26.7	96174	2
59	27.7	1437	11.4	6054	46.0	14611	15.9	29033	36.3	54787	87 43.1	96276	1
60	28.1	1487	12.4	6161	48.2	14796	21.3	29344	56.8	55383	90 0.0	96310	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	6°30:0	0	6°43:6	1485	7°29:7	6155	9° 9:2	14775	12°50:2	29284	23°45:6	55134	60
1	30:0	0	44:1	1536	30:8	6263	11:6	14960	55:9	29597	24 6:5	55729	59
2	30:0	2	44:6	1588	32:0	6372	14:0	15148	13 1:7	29914	28:1	56333	58
3	30:0	4	45:1	1640	33:1	6482	16:4	15336	7:5	30233	50:3	56942	57
4	30:1	7	45:6	1693	34:3	6593	18:9	15527	13:5	30555	25 13:1	57562	56
5	30:1	10	46:1	1747	35:5	6706	21:4	15718	19:6	30880	36:7	58190	55
6	6°30:1	15	6°46:6	1802	7°36:7	6820	9°23:9	15912	13°25:8	31209	26° 0:9	58824	54
7	30:2	20	47:1	1858	37:9	6934	26:5	16107	32:1	31541	25:9	59462	53
8	30:2	26	47:7	1914	39:1	7050	29:1	16304	38:5	31877	51:7	60111	52
9	30:3	33	48:2	1971	40:4	7167	31:7	16503	45:0	32216	27 18:3	60770	51
10	30:4	41	48:8	2030	41:6	7284	34:4	16703	51:6	32556	45:8	61435	50
11	6°30:4	49	6°49:3	2090	7°42:9	7403	9°37:1	16905	13°58:4	32901	28°14:1	62106	49
12	30:5	59	49:9	2150	44:2	7524	39:8	17108	14 5:3	33250	43:4	62789	48
13	30:6	69	50:5	2211	45:5	7645	42:6	17313	12:3	33601	29 13:6	63479	47
14	30:7	80	51:1	2274	46:8	7768	45:4	17520	19:5	33955	44:8	64178	46
15	30:8	92	51:7	2336	48:2	7891	48:2	17730	26:7	34315	30 17:1	64885	45
16	6°31:0	104	6°52:3	2400	7°49:5	8016	9°51:1	17941	14°34:2	34677	30°50:5	65597	44
17	31:1	118	52:9	2465	50:9	8143	54:1	18153	41:7	35042	31 25:1	66319	43
18	31:2	132	53:5	2531	52:3	8270	57:0	18367	49:4	35412	32 0:8	67052	42
19	31:3	147	54:1	2597	53:7	8398	10 0:0	18583	57:3	35785	37:9	67792	41
20	31:5	163	54:8	2665	55:1	8528	3:1	18802	15 5:3	36162	33 16:2	68540	40
21	6°31:6	180	6°55:5	2734	7°56:5	8659	10° 6:2	19022	15°13:4	36543	33°55:9	69295	39
22	31:8	198	56:1	2803	58:0	8791	9:3	19243	21:8	36926	34 37:1	70059	38
23	32:0	217	56:8	2873	59:5	8923	12:5	19467	30:3	37316	35 19:8	70830	37
24	32:1	236	57:5	2943	8 1:0	9058	15:7	19692	38:9	37709	36 4:0	71606	36
25	32:3	256	58:2	3016	2:5	9193	19:0	19920	47:8	38106	49:9	72391	35
26	6°32:5	277	6°58:9	3089	8° 4:0	9331	10°22:3	20150	15°56:8	38506	37°37:6	73181	34
27	32:7	299	59:6	3163	5:6	9469	25:7	20381	16 6:0	38910	38 27:0	73982	33
28	32:9	320	7 0:3	3239	7:2	9608	29:1	20615	15:4	39319	39 18:4	74786	32
29	33:1	344	1:1	3314	8:7	9748	32:5	20850	25:0	39733	40 11:7	75596	31
30	33:3	368	1:8	3391	10:4	9890	36:0	21088	34:8	40152	41 7:1	76408	30
31	6°33:6	393	7° 2:6	3468	8°12:0	10033	10°39:6	21328	16°44:8	40575	42° 4:6	77229	29
32	33:8	419	3:4	3547	13:6	10178	43:2	21569	55:0	41000	43 4:4	78050	28
33	34:0	446	4:1	3627	15:3	10323	46:9	21813	17 5:5	41433	44 6:5	78877	27
34	34:3	473	4:9	3708	17:0	10470	50:6	22059	16:1	41869	45 11:1	79702	26
35	34:6	502	5:7	3790	18:7	10618	54:4	22306	27:1	42309	46 18:2	80527	25
36	6°34:8	531	7° 6:5	3872	8°20:4	10768	10°58:2	22558	17°38:2	42755	47°27:9	81356	24
37	35:1	561	7:4	3956	22:2	10919	11 2:1	22810	49:6	43207	48 40:4	82177	23
38	35:3	592	8:2	4039	24:0	11071	6:0	23064	18 1:3	43663	49 55:7	82995	22
39	35:7	623	9:1	4125	25:8	11225	10:0	23321	13:2	44122	51 13:9	83806	21
40	36:0	656	9:9	4212	27:6	11379	14:1	23580	25:5	44590	52 35:1	84614	20
41	6°36:3	690	7°10:8	4300	8°29:4	11535	11°18:2	23843	18°38:0	45061	53°59:4	85403	19
42	36:6	724	11:7	4388	31:3	11694	22:4	24107	50:8	45537	55 26:9	86187	18
43	36:9	759	12:6	4477	33:2	11852	26:7	24373	19 3:9	46019	56 57:5	86950	17
44	37:2	795	13:5	4567	35:1	12013	31:0	24641	17:3	46508	58 31:4	87697	16
45	37:6	832	14:4	4660	37:0	12175	35:4	24913	31:0	47000	60 8:6	88430	15
46	6°37:9	869	7°15:3	4752	8°39:0	12338	11°39:8	25186	19°45:1	47497	61°49:0	89136	14
47	38:3	908	16:3	4845	41:0	12502	44:3	25460	59:5	48003	63 32:7	89810	13
48	38:6	947	17:2	4940	43:0	12668	48:9	25739	20 14:3	48512	65 19:7	90455	12
49	39:0	988	18:2	5035	45:0	12836	53:6	26020	29:5	49030	67 9:8	91072	11
50	39:4	1028	19:2	5132	47:1	13005	58:3	26304	45:1	49551	69 3:1	91648	10
51	6°39:8	1070	7°20:2	5230	8°49:2	13175	12° 3:2	26588	21° 1:1	50081	70°59:2	92179	9
52	40:2	1113	21:2	5328	51:3	13347	8:1	26877	17:4	50615	72 58:2	92663	8
53	40:6	1156	22:2	5428	53:4	13521	13:0	27169	34:3	51158	74 59:7	93110	7
54	41:0	1201	23:2	5528	55:6	13695	18:1	27462	51:5	51704	77 3:6	93498	6
55	41:4	1246	24:3	5630	57:8	13871	23:2	27760	22 9:3	52258	79 9:7	93834	5
56	6°41:8	1293	7°25:3	5733	9° 0:0	14048	12°28:4	28058	22°27:5	52820	81°17:5	94107	4
57	42:3	1339	26:4	5836	2:3	14227	33:7	28361	46:2	53390	83 26:8	94327	3
58	42:7	1387	27:5	5942	4:6	14409	39:1	28665	23 5:4	53964	85 37:2	94492	2
59	43:2	1436	28:6	6048	6:9	14591	44:6	28973	25:2	54546	87 48:4	94580	1
60	43:6	1485	29:7	6155	9:2	14775	50:2	29284	45:6	55134	90 0:0	94614	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	6°45·0	0	6°59·1	1484	7°46·9	6147	9°30·1	14754	13°19·1	29221	24°34·5	54879	60
1	45·0	0	59·6	1535	48·1	6255	32·6	14939	24·9	29534	55·9	55467	59
2	45·0	2	7 0·1	1586	49·3	6364	35·1	15125	30·9	29849	25 18·0	56063	58
3	45·0	4	0·6	1638	50·5	6474	37·6	15313	37·0	30167	40·8	56665	57
4	45·1	7	1·2	1691	51·7	6585	40·2	15503	43·2	30488	26 4·2	57274	56
5	45·1	10	1·7	1745	52·9	6697	42·8	15695	49·5	30812	28·3	57892	55
6	6°45·1	15	7° 2·2	1800	7°54·2	6811	9°45·4	15888	13°55·9	31139	26° 53·1	58516	54
7	45·2	20	2·8	1856	55·4	6926	48·0	16083	14 2·4	31470	27 18·7	59148	53
8	45·2	26	3·3	1912	56·7	7041	50·7	16280	9·0	31803	45·1	59786	52
9	45·3	33	3·9	1970	58·0	7158	53·4	16477	15·7	32140	28 12·3	60433	51
10	45·4	41	4·5	2028	59·3	7276	56·2	16677	22·6	32480	40·3	61087	50
11	6°45·5	49	7° 5·0	2088	8° 0·6	7395	9°59·0	16879	14°29·6	32823	29° 9·2	61749	49
12	45·6	59	5·6	2148	2·0	7515	10 1·9	17082	36·7	33169	39·1	62419	48
13	45·6	69	6·2	2209	3·3	7636	4·7	17287	44·0	33519	30 9·9	63096	47
14	45·7	80	6·8	2271	4·7	7758	7·6	17494	51·4	33873	41·8	63781	46
15	45·9	92	7·5	2334	6·1	7882	10·6	17702	58·9	34230	31 14·7	64473	45
16	6°46·0	104	7° 8·1	2398	8° 7·5	8006	10°13·6	17912	15° 6·6	34590	31°48·7	65173	44
17	46·1	118	8·7	2462	8·9	8132	16·6	18124	14·4	34954	32 23·8	65882	43
18	46·2	132	9·4	2528	10·4	8259	19·7	18338	22·3	35322	33 0·2	66597	42
19	46·4	147	10·1	2594	11·8	8388	22·8	18554	30·4	35692	37·8	67319	41
20	46·5	163	10·7	2662	13·3	8517	26·0	18771	38·7	36068	34 16·7	68050	40
21	6°46·7	180	7°11·4	2730	8°14·8	8648	10°29·2	18991	15°47·2	36446	34°57·0	68787	39
22	46·9	198	12·1	2799	16·3	8779	32·4	19212	55·8	36829	35 38·7	69532	38
23	47·0	216	12·8	2870	17·8	8912	35·7	19435	16 4·5	37215	36 21·9	70283	37
24	47·2	235	13·5	2941	19·4	9046	39·1	19660	13·5	37606	37 6·7	71040	36
25	47·4	255	14·2	3013	21·0	9182	42·5	19887	22·6	38000	53·1	71804	35
26	6°47·6	276	7°15·0	3086	8°22·6	9318	10°45·9	20116	16°31·9	38399	38°41·2	72573	34
27	47·8	298	15·7	3160	24·2	9456	49·4	20347	41·4	38801	39 31·0	73349	33
28	48·0	320	16·5	3234	25·8	9596	52·9	20580	51·1	39208	40 22·7	74129	32
29	48·2	344	17·2	3310	27·4	9736	56·5	20815	17 1·0	39618	41 16·4	74914	31
30	48·5	368	18·0	3387	29·1	9877	11 0·1	21052	11·2	40034	42 12·1	75702	30
31	6°48·7	393	7°18·8	3465	8°30·8	10020	11° 3·8	21291	17°21·5	40454	43° 9·8	76495	29
32	48·9	419	19·6	3543	32·5	10164	7·6	21532	32·0	40878	44 9·8	77286	28
33	49·2	445	20·4	3623	34·2	10310	11·4	21775	42·8	41307	45 12·0	78081	27
34	49·4	473	21·2	3704	36·0	10456	15·2	22020	53·8	41740	46 16·5	78877	26
35	49·7	502	22·1	3785	37·8	10605	19·1	22268	18 5·1	42179	47 23·5	79670	25
36	6°50·0	530	7°22·9	3868	8°39·6	10754	11°23·1	22517	18°16·6	42621	48°33·0	80462	24
37	50·3	560	23·8	3951	41·4	10905	27·1	22769	28·4	43069	49 45·2	81250	23
38	50·6	591	24·6	4036	43·2	11057	31·2	23023	40·4	43521	51 0·0	82033	22
39	50·9	623	25·5	4121	45·1	11210	35·4	23279	52·7	43978	52 17·6	82808	21
40	51·2	656	26·4	4207	47·0	11364	39·6	23537	19 5·3	44441	53 38·0	83574	20
41	6°51·5	689	7°27·3	4295	8°48·9	11521	11°43·8	23798	19°18·2	44908	55° 1·3	84330	19
42	51·8	723	28·2	4383	50·8	11678	48·2	24061	31·4	45381	56 27·6	85073	18
43	52·2	758	29·2	4472	52·8	11836	52·6	24327	44·9	45859	57 56·9	85799	17
44	52·5	794	30·1	4563	54·8	11996	57·0	24594	58·7	46342	59 29·2	86509	16
45	52·9	831	31·1	4654	56·8	12158	12 1·6	24864	20 12·9	46832	61 4·5	87196	15
46	6°53·2	868	7°32·0	4746	8°58·8	12321	12° 6·2	25137	20°27·4	47325	62°42·9	87860	14
47	53·6	907	33·0	4840	9 0·9	12485	10·9	25412	42·2	47826	64 24·4	88498	13
48	54·0	946	34·0	4934	3·0	12651	15·6	25689	57·5	48331	66 8·7	89104	12
49	54·3	986	35·0	5029	5·1	12807	20·5	25969	21 13·1	48843	67 56·0	89680	11
50	54·7	1027	36·0	5126	7·2	12986	25·4	26252	29·1	49360	69 46·2	90218	10
51	6°55·1	1069	7°37·1	5224	9° 9·4	13156	12°30·4	26536	21°45·5	49884	71°38·9	90717	9
52	55·5	1112	38·1	5322	11·6	13328	35·4	26824	22 2·3	50413	73 34·2	91173	8
53	56·0	1155	39·2	5422	13·8	13501	40·6	27114	19·6	50949	75 31·9	91582	7
54	56·4	1200	40·2	5522	16·0	13675	45·8	27407	37·4	51491	77 31·7	91946	6
55	56·8	1245	41·3	5623	18·3	13851	51·1	27703	55·6	52039	79 33·4	92257	5
56	6°57·3	1291	7°42·4	5726	9°20·6	14029	12°56·5	28001	23°14·3	52594	81°36·7	92515	4
57	57·7	1338	43·5	5830	22·9	14208	13 2·0	28302	33·5	53155	83 41·3	92718	3
58	58·2	1386	44·6	5935	25·3	14388	7·6	28606	53·3	53723	85 47·0	92869	2
59	58·7	1435	45·8	6040	27·7	14570	13·3	28912	24 13·6	54298	87 53·3	92954	1
60	59·1	1484	46·9	6147	30·1	14754	19·1	29221	34·5	54879	90 0·0	92982	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	7° 0·0	0	7°14·7	1482	8° 4·2	6140	9°51·0	14731	13°47·8	29157	25°22·8	54617	60
1	0·0	0	15·2	1533	5·4	6248	53·6	14916	53·9	29468	44·8	55198	59
2	0·0	2	15·7	1585	6·6	6356	56·2	15102	14 0·1	29780	26 7·4	55786	58
3	0·0	4	16·2	1636	7·9	6467	58·8	15290	6·3	30098	30·6	56378	57
4	0·1	7	16·7	1689	9·1	6577	10 1·4	15480	12·7	30418	54·6	56980	56
5	0·1	10	17·3	1743	10·4	6690	4·1	15670	19·2	30742	27 19·2	57589	55
6	7° 0·1	15	7°17·8	1797	8°11·7	6803	10° 6·8	15863	14°25·8	31067	27°44·6	58204	54
7	0·2	20	18·4	1854	13·0	6918	9·6	16058	32·6	31395	28 10·7	58825	53
8	0·3	26	19·0	1910	14·3	7032	12·4	16253	39·4	31727	37·6	59454	52
9	0·3	33	19·6	1969	15·6	7149	15·2	16451	46·4	32062	29 5·4	60090	51
10	0·4	41	20·2	2026	16·9	7267	18·0	16652	53·5	32400	34·0	60730	50
11	7° 0·5	49	7°20·8	2085	8°18·4	7385	10°20·9	16852	15° 0·7	32742	30° 3·4	61383	49
12	0·6	59	21·4	2145	19·7	7505	23·9	17054	8·0	33087	33·9	62041	48
13	0·7	69	22·0	2206	21·2	7626	26·9	17258	15·5	33436	31 5·3	62706	47
14	0·8	80	22·6	2268	22·6	7749	29·9	17465	23·2	33786	37·7	63376	46
15	0·9	92	23·3	2331	24·0	7872	32·9	17673	30·9	34142	32 11·1	64053	45
16	7° 1·0	104	7°23·9	2395	8°25·5	7997	10°36·0	17883	15°38·8	34501	32°45·7	64741	44
17	1·1	118	24·6	2459	26·9	8122	39·2	18095	46·9	34862	33 21·4	65437	43
18	1·3	132	25·3	2525	28·4	8248	42·4	18309	55·1	35228	58·3	66132	42
19	1·4	147	26·0	2591	30·0	8377	45·6	18524	16 3·5	35596	34 36·4	66839	41
20	1·6	163	26·7	2659	31·5	8507	48·9	18740	12·0	35970	35 15·8	67554	40
21	7° 1·8	180	7°27·4	2727	8°33·0	8636	10°52·2	18959	16°20·7	36348	35°56·6	68272	39
22	1·9	198	28·1	2796	34·6	8768	55·5	19180	29·6	36727	36 38·8	68998	38
23	2·1	216	28·8	2866	36·2	8900	58·9	19402	38·6	37111	37 22·5	69731	37
24	2·3	235	29·6	2938	37·8	9034	11 2·4	19627	47·9	37500	38 7·7	70469	36
25	2·5	255	30·3	3009	39·4	9170	5·9	19854	57·3	37891	54·5	71211	35
26	7° 2·7	276	7°31·1	3083	8°41·1	9307	11° 9·5	20082	17° 6·9	38289	39°43·0	71960	34
27	2·9	298	31·8	3156	42·7	9444	13·1	20312	16·7	38688	40 33·2	72714	33
28	3·1	320	32·6	3230	44·4	9583	16·7	20544	26·7	39092	41 25·2	73468	32
29	3·4	343	33·4	3307	46·1	9724	20·4	20778	36·9	39500	42 19·1	74229	31
30	3·6	368	34·2	3383	47·9	9865	24·2	21014	47·3	39913	43 15·0	74993	30
31	7° 3·8	393	7°35·0	3461	8°49·6	10007	11°28·0	21252	17°58·0	40331	44°12·9	75754	29
32	4·1	418	35·9	3540	51·4	10151	31·9	21493	18 8·9	40752	45 12·9	76522	28
33	4·3	445	36·7	3619	53·2	10296	35·8	21735	20·0	41177	46 15·0	77284	27
34	4·6	472	37·6	3699	55·0	10443	39·8	21980	31·3	41606	47 19·5	78050	26
35	4·9	501	38·4	3780	56·8	10590	43·8	22227	42·9	42042	48 26·3	78817	25
36	7° 5·2	530	7°39·3	3863	8°58·7	10739	11°47·9	22475	18°54·8	42481	49°35·5	79575	24
37	5·5	560	40·2	3947	9 0·6	10889	52·1	22727	19 6·9	42925	50 47·2	80328	23
38	5·8	590	41·1	4031	2·5	11041	56·3	22979	19·3	43375	52 1·5	81080	22
39	6·1	622	42·0	4116	4·4	11194	12 0·6	23235	31·9	43828	53 18·3	81821	21
40	6·4	655	42·9	4202	6·4	11349	5·0	23493	44·9	44288	54 37·9	82551	20
41	7° 6·7	688	7°43·9	4289	9° 8·4	11505	12° 9·4	23752	19 58·1	44752	56° 0·2	83267	19
42	7·1	723	44·8	4378	10·4	11662	13·9	24015	20 11·7	45221	57 25·3	83976	18
43	7·4	757	45·8	4467	12·4	11820	18·4	24280	25·6	45693	58 53·2	84667	17
44	7·8	793	46·7	4558	14·4	11979	23·0	24547	39·8	46173	60 23·9	85337	16
45	8·1	830	47·7	4648	16·5	12141	27·7	24816	54·4	46657	61 57·4	85988	15
46	7° 8·5	867	7°48·7	4740	9°18·6	12303	12°32·5	25087	21° 9·3	47147	63°33·8	86617	14
47	8·9	906	49·7	4834	20·8	12467	37·4	25360	24·5	47643	65 13·0	87215	13
48	9·3	945	50·8	4928	22·9	12633	42·3	25637	40·2	48144	66 54·9	87786	12
49	9·7	985	51·8	5024	25·1	12800	47·3	25917	56·2	48651	68 39·4	88325	11
50	10·1	1026	52·9	5120	27·3	12968	52·3	26198	22 12·7	49164	70 26·5	88826	10
51	7°10·5	1068	7°53·9	5217	9°29·6	13138	12°57·5	26483	22°29·5	49679	72°16·1	89296	9
52	10·9	1110	55·0	5316	31·8	13309	13 2·7	26769	46·8	50204	74 8·0	89724	8
53	11·4	1154	56·1	5414	34·1	13482	8·0	27058	23 4·6	50735	76 2·0	90113	7
54	11·8	1199	57·2	5516	36·4	13656	13·5	27349	22·8	51270	77 57·9	90445	6
55	12·3	1243	58·3	5617	38·8	13831	19·0	27644	41·5	51812	79 55·5	90737	5
56	7°12·7	1290	7°59·5	5720	9°41·2	14008	13°24·5	27941	24° 0·7	52361	81°54·6	90977	4
57	13·2	1337	8 0·6	5823	43·6	14186	30·2	28241	20·3	52914	83 54·9	91164	3
58	13·7	1384	1·8	5928	46·1	14367	36·0	28543	40·6	53477	85 56·1	91298	2
59	14·2	1433	3·0	6033	48·5	14548	41·9	28848	25 1·4	54044	87 57·9	91381	1
60	14·7	1482	4·2	6140	51·0	14731	47·8	29157	22·8	54617	90 0·0	91411	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0H		1H		2H		3H		4H		5H		
0	7°15·0	0	7°30·2	1481	8°21·4	6132	10°11·9	14708	14°16·5	29090	26°10·5	54350	60
1	15·0	0	30·7	1531	22·7	6240	14·6	14893	22·8	29399	33·0	54923	59
2	15·0	2	31·2	1582	23·9	6348	17·2	15079	29·1	29712	56·1	55502	58
3	15·0	4	31·8	1634	25·2	6458	19·9	15266	35·6	30027	27 19·8	56088	57
4	15·1	7	32·3	1687	26·5	6569	22·7	15455	42·2	30346	44·3	56680	56
5	15·1	10	32·9	1741	27·8	6681	25·4	15646	48·9	30667	28 9·4	57278	55
6	7°15·1	15	7°33·5	1796	8°29·2	6794	10°28·2	15838	14°55·7	30991	28°35·3	57884	54
7	15·2	20	34·1	1852	30·5	6908	31·1	16032	15 2·6	31319	29 1·9	58495	53
8	15·3	26	34·7	1908	31·9	7023	34·0	16228	9·7	31649	29·4	59114	52
9	15·3	33	35·3	1966	33·3	7140	36·9	16425	16·9	31982	57·6	59739	51
10	15·4	41	35·9	2023	34·7	7257	39·8	16624	24·2	32319	30 26·7	60371	50
11	7°15·5	49	7°36·5	2083	8°36·1	7376	10°42·8	16824	15°31·6	32659	30°56·7	61010	49
12	15·6	58	37·1	2143	37·5	7496	45·9	17026	39·2	33003	31 27·7	61656	48
13	15·7	69	37·8	2204	39·0	7616	49·0	17230	46·9	33349	59·6	62307	47
14	15·8	80	38·4	2266	40·4	7738	52·1	17436	54·8	33699	32 32·5	62966	46
15	15·9	92	39·1	2328	41·9	7862	55·2	17643	16 2·8	34052	33 6·8	63631	45
16	7°16·1	104	7°39·8	2392	8°43·4	7986	10°58·4	17853	16°11·0	34413	33°41·5	64302	44
17	16·2	118	40·5	2457	45·0	8111	11 1·7	18064	19·3	34769	34 17·7	64980	43
18	16·3	132	41·2	2522	46·5	8238	5·0	18277	27·7	35132	55·1	65665	42
19	16·5	147	41·9	2588	48·1	8366	8·3	18491	36·4	35499	35 33·7	66355	41
20	16·6	163	42·6	2656	49·7	8495	11·7	18708	45·2	35870	36 13·6	67052	40
21	7°16·8	180	7°43·3	2724	8°51·3	8625	11°15·1	18926	16°54·1	36244	36°54·8	67755	39
22	17·0	197	44·1	2793	52·9	8755	18·6	19146	17 3·3	36623	37 37·5	68462	38
23	17·2	216	44·8	2863	54·5	8889	22·1	19368	12·6	37005	38 21·5	69175	37
24	17·4	235	45·6	2934	56·2	9022	25·7	19592	22·1	37391	39 7·1	69892	36
25	17·6	255	46·4	3006	57·9	9157	29·3	19818	31·8	37780	54·3	70615	35
26	7°17·7	276	7°47·1	3079	8°59·6	9294	11°33·0	20045	17°41·7	38174	40°43·1	71340	34
27	18·0	297	47·9	3152	9 1·3	9431	36·7	20275	51·8	38571	41 33·6	72071	33
28	18·2	320	48·8	3227	3·0	9570	40·5	20506	18 2·1	38973	42 25·8	72807	32
29	18·5	343	49·6	3303	4·8	9710	44·3	20740	12·6	39379	43 19·9	73542	31
30	18·7	367	50·4	3379	6·6	9851	48·2	20976	23·3	39788	44 15·9	74278	30
31	7°19·0	392	7°51·3	3457	9° 8·4	9993	11°52·2	21213	18°34·3	40203	45°13·8	75016	29
32	19·2	418	52·1	3535	10·2	10137	56·2	21453	45·4	40621	46 13·8	75754	28
33	19·5	445	53·0	3615	12·1	10282	12 0·2	21695	56·9	41044	47 15·9	76493	27
34	19·8	472	53·9	3695	14·0	10428	4·3	21938	19 8·6	41471	48 20·1	77230	26
35	20·0	500	54·8	3776	15·9	10575	8·5	22184	20·5	41903	49 26·7	77963	25
36	7°20·4	529	7°55·7	3859	9°17·8	10724	12°12·7	22433	19°32·7	42338	50°35·5	78692	24
37	20·7	559	56·6	3942	19·7	10874	17·0	22683	45·1	42779	51 46·7	79415	23
38	21·0	590	57·5	4026	21·7	11026	21·4	22935	57·8	43225	53 0·3	80132	22
39	21·3	622	58·5	4111	23·7	11178	25·8	23190	20 10·9	43675	54 16·4	80840	21
40	21·6	654	59·4	4197	25·7	11332	30·3	23447	24·2	44130	55 35·1	81538	20
41	7°22·0	687	8° 0·4	4285	9°27·8	11488	12°34·9	23706	20°37·8	44590	56°56·3	82223	19
42	22·3	722	1·4	4373	29·9	11645	39·5	23967	51·7	45054	58 20·2	82895	18
43	22·7	757	2·4	4462	32·0	11803	44·2	24231	21 6·0	45524	59 46·6	83549	17
44	23·1	792	3·4	4552	34·1	11962	49·0	24497	20·6	45999	61 15·8	84187	16
45	23·4	829	4·4	4643	36·2	12123	53·8	24765	35·6	46476	62 47·5	84802	15
46	7°23·8	867	8° 5·4	4735	9°38·4	12285	12°58·8	25036	21°50·8	46964	64°21·9	85394	14
47	24·2	905	6·5	4828	40·6	12449	13 3·8	25309	22 6·5	47455	65 58·8	85960	13
48	24·6	944	7·5	4922	42·8	12614	8·8	25584	22·6	47951	67 38·3	86499	12
49	25·0	984	8·6	5018	45·1	12780	14·0	25862	39·0	48452	69 20·2	87007	11
50	25·4	1025	9·7	5114	47·4	12949	19·2	26142	55·9	48959	71 4·5	87481	10
51	7°25·9	1067	8°10·8	5211	9°49·7	13118	13°24·6	26426	23°13·2	49472	72°51·0	87918	9
52	26·3	1109	11·9	5309	52·1	13289	30·0	26711	30·9	49990	74 39·6	88318	8
53	26·8	1153	13·1	5408	54·4	13461	35·5	26999	49·1	50514	76 30·1	88679	7
54	27·2	1197	14·2	5508	56·8	13634	41·0	27289	24 7·7	51044	78 22·4	88994	6
55	27·7	1242	15·4	5610	59·3	13810	46·7	27583	26·9	51579	80 16·2	89265	5
56	7°28·2	1288	8°16·5	5713	10° 1·7	13986	13°52·5	27879	24°46·5	52121	82°11·3	89490	4
57	28·7	1335	17·7	5816	4·2	14165	58·3	28177	25 6·7	52670	84 7·5	89667	3
58	29·2	1383	18·9	5920	6·8	14344	14 4·3	28479	27·4	53223	86 4·6	89792	2
59	29·7	1431	20·2	6025	9·3	14526	10·3	28783	48·7	53784	88 2·1	89869	1
60	30·2	1481	21·4	6132	11·9	14708	16·5	29090	26 10·5	54350	90 0·0	89894	0
	11H	10H	9H	8H	7H	6H	m						

m	0H		1H		2H		3H		4H		5H		
0	7°30'0	0	7°45'7	1479	8°38'6	6124	10°32'8	14684	14°45'1	29021	26°57'7	54077	60
1	30'0	0	46'2	1529	39'9	6231	35'5	14869	51'5	29329	27 20'6	54642	59
2	30'0	2	46'8	1580	41'2	6340	38'3	15054	58'1	29641	44'2	55211	58
3	30'0	4	47'3	1633	42'6	6450	41'1	15241	15 4'8	29954	28 8'4	55790	57
4	30'1	7	47'9	1685	43'9	6561	43'9	15430	11'6	30272	33'3	56374	56
5	30'1	10	48'5	1739	45'3	6673	46'7	15620	18'5	30590	58'9	56961	55
6	7°30'2	15	7°49'1	1794	8°46'7	6785	10°49'6	15813	15°25'5	30913	29°25'3	57557	54
7	30'2	20	49'7	1850	48'0	6898	52'6	16006	32'6	31238	52'4	58160	53
8	30'3	26	50'3	1906	49'5	7014	55'6	16200	39'9	31568	30 20'3	58768	52
9	30'3	33	50'9	1964	50'9	7130	58'6	16397	47'3	31900	49'0	59384	51
10	30'4	41	51'6	2021	52'3	7247	11 1'6	16596	54'8	32236	31 18'6	60004	50
11	7°30'5	49	7°52'2	2080	8°53'8	7366	11° 4'7	16795	16° 2'5	32574	31°49'1	60631	49
12	30'6	58	52'9	2141	55'3	7485	7'9	16997	10'3	32915	32 20'6	61264	48
13	30'7	69	53'5	2201	56'8	7606	11'0	17201	18'2	33259	53'0	61903	47
14	30'8	80	54'2	2263	58'3	7728	14'2	17406	26'3	33608	33 26'3	62550	46
15	31'0	92	54'9	2326	59 8	7851	17'5	17612	34'6	33960	34 0'8	63201	45
16	7°31'1	104	7°55'6	2390	9° 1'4	7975	11°20'8	17822	16°43'0	34314	34°36'3	63858	44
17	31'2	118	56'3	2454	3'0	8100	24'2	18032	51'5	34672	35 12'9	64523	43
18	31'4	132	57'0	2519	4'6	8226	27'6	18245	17 0'2	35035	50'7	65193	42
19	31'5	147	57'8	2585	6'1	8354	31'0	18458	9'1	35398	36 29'8	65866	41
20	31'7	163	58'5	2652	7'8	8483	34'5	18675	18'2	35767	37 10'1	66546	40
21	7°31'9	179	7°59'3	2721	9° 9'5	8613	11°38'0	18893	17°27'4	36138	37°51'7	67231	39
22	32'1	197	8 0'0	2790	11'2	8744	41'6	19111	36'8	36514	38 34'7	67922	38
23	32'2	215	0'8	2860	12'9	8876	45'3	19332	46'4	36894	39 19'1	68614	37
24	32'5	235	1'6	2931	14'6	9010	48'9	19555	56'1	37278	40 5'0	69312	36
25	32'7	255	2'4	3002	16'3	9145	52'7	19781	18 6'1	37666	52'4	70014	35
26	7°32'9	275	8° 3'2	3075	9°18'1	9281	11°56'5	20009	18°16'3	38057	41°41'5	70717	34
27	33'1	297	4'1	3149	19'8	9418	12 0'3	20236	26'7	38452	42 32'2	71429	33
28	33'3	320	4'9	3223	21'7	9556	4'2	20467	37'2	38850	43 24'6	72143	32
29	33'6	342	5'7	3299	23'5	9696	8'2	20701	48'0	39253	44 18'7	72854	31
30	33'8	367	6'6	3375	25'3	9837	12'2	20935	59'1	39660	45 14'8	73564	30
31	7°34'1	392	8° 7'5	3452	9°27'2	9979	12°16'2	21173	19°10'3	40073	46°12'7	74279	29
32	34'4	418	8'4	3531	29'1	10122	20'4	21413	21'8	40487	47 12'6	74993	28
33	34'7	444	9'3	3610	31'0	10267	24'6	21653	33'6	40907	48 14'5	75704	27
34	34'9	471	10'2	3690	32'9	10413	28'8	21896	45'5	41331	49 18'5	76407	26
35	35'2	500	11'1	3772	34'9	10560	33'1	22141	57'8	41759	50 24'7	77115	25
36	7°35'5	529	8°12'0	3853	9°36'9	10709	12°37'5	22388	20°10'3	42191	51°33'1	77819	24
37	35'9	558	13'0	3937	38'9	10858	41'9	22639	23'1	42630	52 43'7	78512	23
38	36'2	589	13'9	4021	40'9	11009	46'4	22890	36'2	43070	53 56'7	79194	22
39	36'5	621	14'9	4106	43'0	11162	51'0	23142	49'5	43515	55 12'0	79871	21
40	36'9	654	15'9	4192	45'1	11316	55'6	23399	21 3'2	43966	56 29'7	80534	20
41	7°37'2	686	8°16'9	4279	9°47'2	11471	13° 0'3	23658	21°17'2	44423	57°49'8	81193	19
42	37'6	720	17'9	4367	49'3	11628	5'1	23918	31'4	44884	59 12'4	81831	18
43	37'9	756	19'0	4456	51'5	11785	10'0	24181	46'1	45349	60 37'5	82451	17
44	38'3	792	20'0	4546	53'7	11944	14'9	24445	22 1'0	45821	62 5'0	83056	16
45	38'7	829	21'1	4637	55'9	12105	19'9	24713	16'4	46296	63 34'9	83643	15
46	7°39'1	865	8°22'1	4729	9°58'2	12267	13°25'0	24983	22°32'0	46776	65° 7'3	84204	14
47	39'5	904	23'2	4822	10 0'5	12430	30'1	25255	48'1	47264	66 42'1	84737	13
48	39'9	943	24'3	4916	2'8	12595	35'3	25530	23 4'5	47754	68 19'2	85241	12
49	40'4	983	25'4	5011	5'1	12762	40'7	25806	21'4	48251	69 58'6	85722	11
50	40'8	1023	26'5	5107	7'5	12929	46'1	26085	38'7	48751	71 40'1	86169	10
51	7°41'2	1065	8°27'7	5204	10° 9'9	13097	13°51'5	26368	23°56'4	49257	73°23'7	86581	9
52	41'7	1108	28'8	5303	12'3	13268	57'1	26651	24 14'5	49769	75 9'2	86959	8
53	42'2	1151	30'0	5401	14'7	13440	14 2'8	26938	33'1	50289	76 56'4	87294	7
54	42'6	1196	31'2	5502	17'2	13613	8'5	27227	52'2	50812	78 45'3	87584	6
55	43'1	1240	32'4	5602	19'7	13788	14'4	27520	25 11'7	51341	80 35'5	87840	5
56	7°43'6	1287	8°33'6	5704	10°22'3	13964	14°20'3	27813	25°31'8	51879	82°26'9	88048	4
57	44'1	1334	34'8	5808	24'9	14142	26'4	28111	52'4	52419	84 19'3	88219	3
58	44'6	1381	36'1	5913	27'5	14321	32'5	28413	26 13'6	52967	86 12'5	88334	2
59	45'2	1430	37'4	6018	30'1	14502	38'7	28715	35'3	53518	88 6'1	88402	1
60	45'7	1479	38'6	6124	32'8	14684	45'1	29021	57'7	54077	90 0'0	88430	0
	11H	10H	9H	8H	7H	6H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	7°45-0	0	8° 1-2	1477	8°55-9	6116	10°53-7	14660	15°13-6	28949	27°44-2	53798	60
1	45-0	0	1-8	1528	57-2	6223	56-5	14844	20-2	29256	28 7-6	54355	59
2	45-0	2	2-3	1579	58-5	6331	59-3	15029	27-0	29566	31-6	54918	58
3	45-0	4	2-9	1631	59-9	6441	11 2-2	15215	33-8	29879	56-2	55486	57
4	45-1	7	3-5	1683	9 1-3	6551	5-1	15403	40-8	30194	29 21-6	56060	56
5	45-1	10	4-1	1737	2-7	6663	8-0	15593	47-9	30513	47-7	56641	55
6	7°45-1	15	8° 4-7	1792	9° 4-1	6776	11°11-0	15783	15°55-1	30834	30°14-5	57227	54
7	45-2	20	5-3	1847	5-6	6889	14-0	15977	16 2-5	31158	42-1	57821	53
8	45-3	26	6-0	1904	7-0	7004	17-1	16172	10-0	31485	31 10-4	58417	52
9	45-3	33	6-6	1961	8-5	7120	20-2	16369	17-6	31816	39-6	59021	51
10	45-4	41	7-3	2019	10-0	7237	23-4	16566	25-3	32149	32 9-7	59630	50
11	7°45-5	49	8° 7-9	2078	9°11-5	7356	11°26-6	16766	16°33-2	32486	32°40-6	60246	49
12	45-6	58	8-6	2138	13-0	7475	29-9	16967	41-2	32825	33 12-5	60867	48
13	45-7	69	9-3	2199	14-6	7595	33-1	17170	49-4	33168	45-3	61494	47
14	45-9	80	10-0	2260	16-2	7717	36-4	17375	57-7	33515	34 19-1	62127	46
15	46-0	92	10-7	2323	17-7	7840	39-8	17581	17 6-2	33864	54-0	62764	45
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17	46-3	118	12-2	2450	21-0	8089	46-6	17999	23-6	34572	36 6-9	64057	43
18	46-4	132	12-9	2516	22-6	8215	50-1	18211	32-6	34932	45-1	64711	42
19	46-6	147	13-7	2582	24-3	8342	53-7	18424	41-7	35295	37 24-6	65370	41
20	46-8	163	14-4	2649	26-0	8471	57-3	18640	51-0	35661	38 5-2	66033	40
21	7°46-9	179	8°15-2	2717	9°27-7	8601	12° 0-9	18857	18° 0-5	36031	38°47-2	66701	39
22	47-1	197	16-0	2786	29-4	8731	4-6	19076	10-1	36405	39 30-5	67373	38
23	47-3	215	16-8	2856	31-2	8864	8-4	19296	20-0	36782	40 15-2	68049	37
24	47-5	234	17-6	2927	32-9	8997	12-2	19519	30-0	37163	41 1-3	68728	36
25	47-7	254	18-5	2999	34-7	9131	16-0	19743	40-3	37547	49-0	69411	35
26	7°48-0	275	8°19-3	3071	9°36-5	9267	12°19-9	19970	18°50-7	37936	42°38-2	70097	34
27	48-2	297	20-2	3145	38-4	9404	23-9	20198	19 1-3	38328	43 29-0	70783	33
28	48-4	319	21-0	3219	40-2	9542	27-9	20428	12-2	38724	44 21-5	71472	32
29	48-7	342	21-9	3295	42-1	9681	32-0	20661	23-3	39125	45 15-8	72162	31
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31	7°49-2	391	8°23-7	3448	9°46-0	9964	12°40-3	21131	19°46-2	39937	47° 9-6	73540	29
32	49-5	417	24-6	3526	47-9	10107	44-6	21369	58-0	40349	48 9-4	74229	28
33	49-8	443	25-5	3606	49-9	10251	48-9	21609	20 10-0	40766	49 11-1	74914	27
34	50-1	471	26-5	3686	51-9	10397	53-2	21852	22-4	41186	50 14-8	75596	26
35	50-4	499	27-4	3767	53-9	10544	57-7	22096	34-9	41611	51 20-5	76274	25
36	7°50-7	528	8°28-4	3849	9°56-0	10692	13° 2-2	22343	20°47-7	42040	52°28-4	76946	24
37	51-1	558	29-4	3932	58-1	10842	6-8	22591	21 0-8	42474	53 38-4	77611	23
38	51-4	589	30-4	4016	10 0-2	10993	11-4	22842	14-2	42912	54 50-7	78269	22
39	51-7	620	31-4	4101	2-3	11145	16-1	23095	27-9	43354	56 5-1	78916	21
40	52-1	653	32-4	4187	4-4	11298	20-9	23350	41-9	43802	57 21-8	79553	20
41	7°52-4	686	8°33-4	4274	10° 6-6	11453	13°25-7	23607	21°56-2	44253	58°40-9	80175	19
42	52-8	720	34-5	4362	8-8	11608	30-6	23867	22 10-9	44710	60 2-2	80783	18
43	53-2	755	35-5	4450	11-1	11767	35-6	24129	25-8	45171	61 25-8	81376	17
44	53-6	791	36-6	4540	13-3	11926	40-7	24393	41-2	45637	62 51-7	81949	16
45	54-0	827	37-7	4631	15-6	12086	45-9	24659	56-8	46108	64 19-9	82503	15
46	7°54-4	864	8°38-8	4723	10°17-9	12248	13°51-1	24928	23°12-9	46584	65°50-4	83034	14
47	54-8	903	39-9	4816	20-3	12411	56-4	25199	29-3	47065	67 23-1	83540	13
48	55-3	942	41-1	4910	22-7	12575	14 1-8	25473	46-1	47551	68 57-9	84020	12
49	55-7	982	42-2	5005	25-1	12741	7-3	25748	24 3-4	48042	70 34-8	84471	11
50	56-1	1022	43-4	5100	27-5	12908	12-8	26027	21-0	48538	72 13-7	84892	10
51	7°56-6	1064	8°44-5	5197	10°30-0	13077	14°18-5	26307	24°39-1	49040	73°54-5	85279	9
52	57-1	1106	45-7	5295	32-5	13247	24-2	26590	57-7	49547	75 37-0	85632	8
53	57-6	1150	47-0	5394	35-0	13418	30-0	26876	25 16-7	50059	77 21-2	85948	7
54	58-0	1194	48-2	5494	37-5	13591	36-0	27165	36-2	50576	79 6-7	86227	6
55	58-5	1239	49-4	5595	40-2	13766	42-0	27456	56-2	51099	80 53-6	86463	5
56	7°59-1	1285	8°50-7	5697	10°42-8	13941	14°48-1	27749	26°16-7	51628	82°41-5	86660	4
57	59-6	1332	51-9	5800	45-5	14119	54-3	28045	37-7	52162	84 30-4	86815	3
58	8 0-1	1379	53-2	5904	48-2	14298	15 0-6	28344	59-3	52701	86 19-9	86925	2
59	0-6	1428	54-5	6010	50-9	14478	7-1	28646	27 21-5	53247	88 9-8	86993	1
60	1-2	1477	55-9	6116	53-7	14660	13-6	28949	44-2	53798	90 0-0	87015	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H			1 H			2 H			3 H			4 H			5 H			
0	8° 0.0	0	8° 16.7	1475	9° 13.1	6107	11° 14.5	14634	15° 42.0	28877	28° 30.1	53513	60						
1	0.0	0	17.3	1526	14.4	6215	17.4	14818	48.8	29182	53.9	54065	59						
2	0.0	2	17.9	1577	15.8	6323	20.3	15002	55.7	29490	29 18.4	54619	58						
3	0.0	4	18.5	1629	17.3	6432	23.2	15188	16 2.8	29802	43.4	55177	57						
4	0.1	7	19.1	1681	18.7	6542	26.3	15376	10.0	30116	30 9.2	55743	56						
5	0.1	10	19.7	1735	20.1	6654	29.3	15566	17.3	30433	35.7	56316	55						
6	8° 0.2	15	8° 20.3	1789	9° 21.6	6766	11° 32.4	15757	16° 24.7	30753	31° 2.9	56890	54						
7	0.2	20	21.0	1845	23.1	6879	35.5	15949	32.3	31074	30.9	57473	53						
8	0.3	26	21.6	1901	24.6	6994	38.6	16143	39.9	31399	59.7	58060	52						
9	0.4	33	22.3	1958	26.1	7110	41.8	16339	47.8	31729	32 29.3	58653	51						
10	0.5	40	23.0	2016	27.6	7227	45.1	16537	55.7	32060	59.8	59251	50						
11	8° 0.5	49	8° 23.7	2075	9° 29.2	7345	11° 48.4	16736	17° 3.8	32395	33° 31.2	59856	49						
12	0.7	58	24.4	2135	30.8	7464	51.7	16936	12.1	32732	34 3.5	60465	48						
13	0.8	69	25.1	2196	32.4	7585	55.1	17138	20.4	33073	36.7	61079	47						
14	0.9	80	25.8	2257	34.0	7706	58.5	17342	29.0	33419	35 10.9	61698	46						
15	1.0	91	26.5	2320	35.6	7829	12 2.0	17548	37.7	33766	46.1	62323	45						
16	8° 1.2	104	8° 27.3	2383	9° 37.3	7952	12° 5.5	17756	17° 46.5	34116	36° 22.4	62954	44						
17	1.3	117	28.0	2447	39.0	8077	9.0	17965	55.6	34469	59.8	63588	43						
18	1.5	131	28.8	2513	40.7	8203	12.6	18176	18 4.8	34827	37 38.4	64226	42						
19	1.6	146	29.6	2579	42.4	8329	16.3	18388	14.1	35187	38 18.1	64868	41						
20	1.8	162	30.4	2646	44.1	8458	20.0	18604	23.7	35551	59.1	65518	40						
21	8° 2.0	179	8° 31.2	2714	9° 45.9	8588	12° 23.7	18821	18° 33.4	35920	39° 41.3	66171	39						
22	2.2	197	32.0	2782	47.7	8719	27.6	19038	43.3	36290	40 24.9	66824	38						
23	2.4	215	32.8	2852	49.5	8851	31.4	19259	53.4	36666	41 9.8	67482	37						
24	2.6	234	33.7	2923	51.3	8984	35.3	19481	19 3.7	37044	56.2	68142	36						
25	2.8	253	34.5	2995	53.1	9118	39.3	19704	14.2	37427	42 44.0	68805	35						
26	8° 3.1	274	8° 35.4	3067	9° 55.0	9253	12° 43.3	19931	19° 24.9	37812	43° 33.4	69471	34						
27	3.3	296	36.3	3140	56.9	9390	47.4	20158	35.8	38202	44 24.3	70137	33						
28	3.6	319	37.2	3214	58.8	9528	51.5	20387	47.0	38595	45 16.8	70803	32						
29	3.8	342	38.1	3291	10 0.8	9667	55.7	20619	58.3	38992	46 11.0	71472	31						
30	4.1	366	39.0	3367	2.7	9807	13 0.0	20853	20 9.9	39393	47 7.0	72145	30						
31	8° 4.4	391	8° 39.9	3444	10° 4.7	9949	13° 4.3	21088	20° 21.8	39799	48° 4.7	72807	29						
32	4.7	416	40.8	3522	6.7	10092	8.7	21325	33.9	40208	49 4.2	73468	28						
33	5.0	443	41.8	3600	8.8	10236	13.1	21565	46.2	40622	50 5.6	74128	27						
34	5.3	470	42.8	3681	10.8	10381	17.6	21806	58.8	41039	51 8.9	74784	26						
35	5.6	499	43.8	3762	12.9	10528	22.2	22050	21 11.7	41461	52 14.3	75437	25						
36	8° 5.9	528	8° 44.8	3843	10° 15.0	10676	13° 26.8	22295	21° 24.8	41885	53° 21.6	76083	24						
37	6.2	557	45.8	3926	17.2	10825	31.5	22544	38.2	42315	54 31.0	76720	23						
38	6.6	588	46.8	4010	19.4	10975	36.3	22793	52.0	42749	55 42.4	77350	22						
39	6.9	620	47.8	4095	21.5	11127	41.1	23045	22 6.0	43188	56 56.0	77970	21						
40	7.3	652	48.9	4180	23.8	11280	46.1	23299	20.3	43631	58 11.7	78578	20						
41	8° 7.7	685	8° 49.9	4268	10° 26.0	11435	13° 51.0	23556	22° 35.0	44079	59° 29.6	79172	19						
42	8.1	719	51.0	4356	28.3	11590	56.1	23814	49.9	44531	60 49.6	79754	18						
43	8.5	753	52.1	4444	30.6	11748	14 1.3	24076	23 5.3	44987	62 11.8	80320	17						
44	8.9	789	53.2	4534	32.9	11907	6.5	24339	21.0	45450	63 36.2	80866	16						
45	9.3	826	54.4	4625	35.3	12067	11.8	24604	37.0	45917	65 2.7	81388	15						
46	8° 9.7	864	8° 55.5	4716	10° 37.7	12228	14° 17.1	24872	23° 53.4	46387	66° 31.2	81888	14						
47	10.1	901	56.6	4809	40.1	12390	22.6	25141	24 10.2	46863	68 1.8	82368	13						
48	10.6	941	57.8	4903	42.5	12554	28.2	25413	27.4	47344	69 34.5	82824	12						
49	11.0	980	59.0	4998	45.0	12720	33.8	25689	45.0	47829	71 9.1	83250	11						
50	11.5	1022	9 0.2	5093	47.5	12887	39.5	25966	25 3.0	48320	72 45.4	83649	10						
51	8° 12.0	1063	9° 1.4	5190	10° 50.1	13055	14° 45.3	26246	25° 21.5	48816	74° 23.5	84014	9						
52	12.5	1105	2.6	5288	52.7	13225	51.2	26528	40.4	49317	76 3.3	84345	8						
53	13.0	1148	3.9	5386	55.3	13396	57.2	26812	59.8	49823	77 44.4	84640	7						
54	13.5	1193	5.1	5486	57.9	13569	15 3.3	27100	26 19.7	50335	79 26.8	84904	6						
55	14.0	1237	6.4	5588	11 0.6	13742	9.5	27390	40.1	50851	81 10.6	85127	5						
56	8° 14.5	1283	9° 7.7	5689	11° 3.3	13918	15° 15.8	27682	27° 1.0	51373	82° 55.3	85312	4						
57	15.0	1331	9.0	5792	6.0	14095	22.2	27976	22.4	51900	84 40.7	85456	3						
58	15.6	1378	10.4	5896	8.8	14274	28.7	28274	44.4	52433	86 26.8	85564	2						
59	16.1	1427	11.7	6001	11.6	14453	35.3	28574	28 7.0	52971	88 13.3	85626	1						
60	16.7	1475	13.1	6107	14.5	14634	42.0	28877	30.1	53513	90 0.0	85644	0						
	11 H	10 H	9 H	8 H	7 H	6 H	m												

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	8°15'0	0	8°32'2	1474	9°30'3	6098	11°35'3	14609	16°10'3	28801	29°15'5	53225	60
1	15'0	0	32'8	1524	31'7	6205	38'2	14792	17'3	29105	39'7	53766	59
2	15'0	2	33'4	1575	33'1	6313	41'3	14975	24'4	29412	30'4'5	54312	58
3	15'0	4	34'0	1626	34'6	6422	44'3	15161	31'7	29722	30'0	54863	57
4	15'1	7	34'7	1679	36'1	6533	47'4	15349	39'0	30035	56'2	55420	56
5	15'1	10	35'3	1733	37'5	6644	50'5	15537	46'5	30350	31'23'0	55982	55
6	8°15'2	15	8°35'9	1787	9°39'1	6756	11°53'7	15728	16°54'1	30668	31°50'7	56549	54
7	15'2	20	36'6	1842	40'6	6870	56'9	15920	17'1'9	30989	32'19'1	57121	53
8	15'3	26	37'3	1899	42'1	6984	12'0'1	16113	9'8	31313	48'2	57698	52
9	15'4	33	38'0	1956	43'7	7100	3'4	16309	17'8	31640	33'18'2	58281	51
10	15'5	40	38'7	2014	45'3	7216	6'8	16506	26'0	31969	49'1	58868	50
11	8°15'6	49	8°39'4	2072	9°46'9	7334	12°10'2	16704	17°34'3	32302	34°20'8	59461	49
12	15'7	58	40'1	2132	48'5	7453	13'6	16904	42'7	32638	53'5	60058	48
13	15'8	69	40'8	2193	50'2	7573	17'1	17106	51'3	32977	35'27'1	60660	47
14	15'9	80	41'6	2254	51'8	7694	20'6	17310	18'0'1	33319	36'1'6	61267	46
15	16'0	91	42'3	2317	53'5	7817	24'1	17515	9'0	33665	37'2	61878	45
16	8°16'2	103	8°43'1	2380	9°55'2	7940	12°27'7	17722	18°18'1	34013	37°13'8	62494	44
17	16'3	117	43'9	2444	56'9	8065	31'4	17931	27'4	34366	51'6	63114	43
18	16'5	131	44'7	2509	58'7	8190	35'1	18141	36'9	34720	38'30'4	63739	42
19	16'7	146	45'5	2575	10'0'5	8317	38'9	18353	46'4	35078	39'10'4	64367	41
20	16'9	162	46'3	2642	2'3	8445	42'7	18567	56'2	35440	51'7	64998	40
21	8°17'1	179	8°47'1	2710	10°4'1	8575	12°46'5	18783	19°6'1	35807	40°34'2	65633	39
22	17'3	196	48'0	2779	5'9	8705	50'5	19001	16'3	36175	41'17'9	66270	38
23	17'5	214	48'8	2848	7'8	8837	54'4	19220	26'7	36547	42'3'1	66911	37
24	17'7	234	49'7	2919	9'6	8969	58'5	19441	37'2	36923	49'6	67554	36
25	17'9	253	50'6	2991	11'5	9104	13'2'5	19665	48'0	37302	43'37'5	68200	35
26	8°18'2	274	8°51'5	3063	10°13'5	9239	13°6'7	19890	19°58'9	37685	44°26'9	68844	34
27	18'4	296	52'4	3136	15'4	9375	10'9	20117	20'10'1	38072	45'17'9	69490	33
28	18'7	318	53'3	3211	17'4	9513	15'1	20346	21'5	38463	46'10'4	70137	32
29	18'9	341	54'2	3286	19'4	9652	19'4	20576	33'2	38857	47'4'5	70783	31
30	19'2	365	55'2	3362	21'4	9792	23'8	20809	45'1	39255	48'0'3	71429	30
31	8°19'5	390	8°56'1	3439	10°23'5	9933	13°28'3	21044	20°57'2	39657	48°57'9	72070	29
32	19'8	416	57'1	3517	25'5	10076	32'8	21280	21'9'5	40063	49'57'1	72712	28
33	20'1	442	58'1	3596	27'6	10219	37'3	21519	22'2	40473	50'58'2	73349	27
34	20'4	470	59'1	3676	29'8	10365	42'0	21760	35'1	40887	52'1'1	73981	26
35	20'7	498	9'0'1	3757	31'9	10511	46'6	22002	48'2	41305	53'6'0	74608	25
36	8°21'1	527	9°1'1	3839	10°34'1	10658	13°51'4	22247	22°1'7	41727	54°12'7	75229	24
37	21'4	557	2'1	3921	36'3	10807	56'3	22494	15'4	42153	55'21'4	75841	23
38	21'8	587	3'2	4005	38'5	10958	14'1'2	22743	29'4	42584	56'32'0	76445	22
39	22'2	619	4'3	4090	40'8	11109	6'1	22994	43'8	43019	57'44'7	77038	21
40	22'5	651	5'4	4175	43'1	11262	11'2	23248	58'4	43458	58'59'4	77618	20
41	8°22'9	684	9°6'5	4262	10°45'4	11416	14°16'3	23503	23°13'4	43901	60°16'1	78186	19
42	23'3	718	7'6	4350	47'7	11572	21'5	23761	28'7	44349	61'34'9	78740	18
43	23'7	753	8'7	4438	50'1	11729	26'8	24020	44'4	44802	62'55'7	79277	17
44	24'1	788	9'8	4528	52'5	11887	32'2	24282	24'0'4	45258	64'18'5	79796	16
45	24'6	825	11'0	4619	54'9	12046	37'6	24547	16'7	45720	65'43'3	80295	15
46	8°25'0	862	9°12'2	4710	10°57'4	12207	14°43'1	24814	24°33'5	46186	67°10'0	80773	14
47	25'4	900	13'4	4803	59'9	12370	48'7	25083	50'6	46657	68'38'7	81227	13
48	25'9	939	14'6	4896	11'2'4	12533	54'4	25354	25'8'2	47133	70'9'2	81658	12
49	26'4	979	15'8	4991	5'0	12698	15'0'2	25628	26'1	47613	71'41'4	82061	11
50	26'8	1020	17'0	5086	7'5	12865	6'1	25904	44'5	48098	73'15'4	82435	10
51	8°27'3	1061	9°18'3	5183	11°10'2	13033	15°12'1	26182	26°3'4	48588	74°51'0	82781	9
52	27'8	1104	19'5	5280	12'8	13202	18'1	26463	22'7	49083	76'28'0	83095	8
53	28'3	1147	20'8	5379	15'5	13373	24'3	26747	42'4	49583	78'6'4	83374	7
54	28'9	1191	22'1	5479	18'2	13545	30'6	27032	27'2'7	50088	79'46'0	83618	6
55	29'4	1236	23'4	5579	21'0	13719	36'9	27320	23'5	50598	81'26'6	83830	5
56	8°29'9	1282	9°24'8	5681	11°23'8	13894	15°43'4	27612	27°44'7	51113	83°8'2	84005	4
57	30'5	1329	26'1	5784	26'6	14070	49'9	27905	28'6'6	51633	84'50'5	84140	3
58	31'1	1376	27'5	5888	29'4	14248	56'6	28202	29'0	52159	86'33'3	84239	2
59	31'6	1424	28'9	5993	32'3	14428	16'3'4	28499	51'9	52689	88'16'6	84297	1
60	32'2	1474	30'3	6098	35'3	14609	10'3	28801	29'15'5	53225	90'0'0	84317	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	8°30'0	0	8°47'7	1472	9°47'5	6089	11°56'0	14582	16°38'5	28724	30° 0'2	52930	60
1	30'0	0	48'3	1522	48'9	6196	59'1	14764	45'7	29027	24'8	53465	59
2	30'0	2	48'9	1573	50'4	6304	12 2'2	14948	53'0	29333	50'0	54002	58
3	30'0	4	49'6	1624	51'9	6413	5'3	15133	17 0'4	29641	31 15'8	54546	57
4	30'1	6	50'2	1677	53'4	6523	8'5	15319	8'0	29951	42'4	55095	56
5	30'1	10	50'9	1730	55'0	6635	11'7	15508	15'7	30266	32 9'6	55646	55
6	8°30'2	15	8°51'6	1784	9°56'5	6747	12°15'0	15697	17°23'5	30581	32°37'6	56200	54
7	30'2	20	52'2	1840	58'1	6860	18'3	15889	31'4	30900	33 6'4	56763	53
8	30'3	26	52'9	1896	59'7	6974	21'6	16082	39'5	31223	35'9	57332	52
9	30'4	33	53'6	1953	10 1'3	7089	25'0	16277	47'7	31548	34 6'3	57904	51
10	30'5	40	54'3	2011	2'9	7205	28'4	16474	56'1	31877	37'5	58479	50
11	8°30'6	49	8°55'1	2070	10° 4'6	7323	12°31'9	16672	18° 4'6	32207	35° 9'6	59061	49
12	30'6	58	55'8	2129	6'2	7441	35'4	16871	13'3	32541	42'6	59646	48
13	30'8	68	56'6	2190	7'9	7561	39'0	17073	22'1	32877	36 16'5	60238	47
14	30'9	80	57'3	2252	9'6	7683	42'6	17275	31'1	33218	51'4	60830	46
15	31'1	91	58'1	2314	11'4	7805	46'3	17480	40'2	33561	37 27'3	61430	45
16	8°31'2	103	8°58'9	2377	10°13'1	7928	12°50'0	17687	18°49'5	33908	38° 4'2	62030	44
17	31'4	117	59'7	2441	14'9	8052	53'7	17895	59'0	34258	42'2	62638	43
18	31'6	131	9 0'5	2506	16'7	8178	57'6	18104	19 8'7	34611	39 21'3	63247	42
19	31'7	146	1'4	2572	18'5	8304	13 1'4	18316	18'5	34966	40 1'6	63860	41
20	31'9	162	2'2	2638	20'4	8432	5'3	18529	28'5	35327	43'0	64475	40
21	8°32'1	179	9° 3'1	2706	10°22'2	8562	13° 9'3	18745	19°38'7	35690	41°25'7	65094	39
22	32'3	196	3'9	2776	24'1	8692	13'3	18962	49'1	36055	42 9'7	65715	38
23	32'5	214	4'8	2845	26'0	8823	17'4	19181	59'7	36425	54'9	66339	37
24	32'8	233	5'7	2915	28'0	8954	21'5	19401	20 10'5	36798	43 41'5	66965	36
25	33'0	253	6'6	2986	29'9	9089	25'7	19623	21'5	37175	44 29'5	67592	35
26	8°33'3	274	9° 7'5	3058	10°31'9	9224	13°30'0	19847	20 32'8	37557	45°19'0	68218	34
27	33'5	296	8'5	3131	33'9	9360	34'3	20074	44'2	37940	46 9'9	68844	33
28	33'8	318	9'4	3206	36'0	9497	38'7	20303	55'9	38328	47 2'4	69473	32
29	34'0	341	10'4	3281	38'0	9636	43'1	20533	21 7'8	38719	56'4	70097	31
30	34'3	365	11'3	3357	40'1	9776	47'6	20764	19'9	39114	48 52'0	70723	30
31	8°34'6	390	9°12'3	3434	10°42'2	9917	13°52'2	20998	21°32'3	39511	49°49'3	71340	29
32	34'9	416	13'3	3512	44'3	10059	56'8	21235	45'0	39915	50 48'3	71960	28
33	35'3	442	14'3	3591	46'5	10202	14 1'5	21472	57'9	40322	51 49'0	72575	27
34	35'6	469	15'4	3670	48'7	10348	6'2	21712	22 11'1	40732	52 51'5	73181	26
35	35'9	497	16'4	3751	50'9	10494	10'9	21953	24'5	41147	53 55'7	73787	25
36	8°36'3	526	9°17'5	3833	10°53'1	10641	14°15'9	22198	22°38'3	41564	55° 1'8	74382	24
37	36'6	556	18'5	3916	55'4	10790	20'9	22444	52'3	41989	56 9'8	74972	23
38	37'0	586	19'6	3999	57'7	10940	26'0	22691	23 6'6	42415	57 19'6	75548	22
39	37'4	618	20'7	4083	11 0'0	11091	31'1	22941	21'3	42846	58 31'4	76118	21
40	37'8	650	21'8	4169	2'4	11243	36'3	23195	36'2	43279	59 45'0	76676	20
41	8°38'1	683	9°23'0	4256	11° 4'8	11397	14°41'5	23450	23°51'5	43719	61° 0'6	77217	19
42	38'6	717	24'1	4343	7'2	11552	46'9	23706	24 7'1	44164	62 18'1	77744	18
43	39'0	751	25'3	4432	9'6	11708	52'3	23965	23'1	44610	63 37'5	78254	17
44	39'4	787	26'4	4522	12'1	11866	57'8	24226	39'4	45064	64 58'7	78748	16
45	39'8	824	27'6	4612	14'6	12025	15 3'4	24490	56'1	45520	66 21'9	79224	15
46	8°40'3	861	9°28'8	4703	11°17'1	12186	15° 9'1	24754	25°13'2	45982	67°46'8	79682	14
47	40'8	899	30'1	4796	19'7	12348	14'8	25022	30'7	46446	69 13'6	80111	13
48	41'2	938	31'3	4889	22'2	12511	20'7	25292	48'6	46918	70 42'0	80519	12
49	41'7	978	32'6	4984	24'9	12677	26'6	25566	26 6'9	47391	72 12'1	80903	11
50	42'2	1019	33'8	5080	27'5	12843	32'6	25840	25'6	47872	73 43'8	81258	10
51	8°42'7	1060	9°35'1	5176	11°30'2	13010	15°38'8	26118	26°44'8	48356	75°16'9	81583	9
52	43'2	1103	36'4	5273	33'0	13179	45'0	26397	27 4'5	48846	76 51'4	81879	8
53	43'7	1145	37'7	5371	35'7	13348	51'3	26679	24'6	49339	78 27'1	82143	7
54	44'3	1190	39'1	5470	38'5	13520	57'7	26965	45'2	49838	80 3'9	82376	6
55	44'8	1234	40'4	5571	41'3	13694	16 4'3	27251	28 6'3	50342	81 41'7	82575	5
56	8°45'4	1280	9°41'8	5673	11°44'2	13868	16°10'9	27541	28°28'0	50851	83°20'4	82735	4
57	45'9	1326	43'2	5775	47'1	14045	17'6	27833	50'2	51362	84 59'7	82861	3
58	46'5	1374	44'6	5879	50'1	14222	24'5	28128	29 12'9	51880	86 39'5	82953	2
59	47'1	1422	46'0	5984	53'0	14400	31'4	28425	36'3	52403	88 19'7	83013	1
60	47'7	1472	47'5	6089	56'0	14582	38'5	28724	30 0'2	52930	90 0'0	83030	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	8°45'0	0	9' 3.2	1470	10° 4.7	6080	12°16'8	14555	17° 6.6	28646	30°44'3	52634	60
1	45'0	0	3.8	1520	6.2	6187	19.9	14736	13.8	28947	31 9.3	53158	59
2	45'0	2	4.5	1570	7.7	6294	23.1	14920	21.4	29250	34.8	53688	58
3	45'0	4	5.1	1622	9.2	6403	26.3	15104	29.1	29557	32 1.0	54222	57
4	45'1	6	5.8	1674	10.8	6513	29.6	15290	36.8	29866	27.9	54760	56
5	45'1	10	6.5	1728	12.4	6624	32.9	15479	44.7	30178	55.5	55303	55
6	8°45'2	15	9° 7.2	1782	10°14'0	6736	12°36'2	15668	17°52'7	30492	33 23.9	55852	54
7	45'2	20	7.9	1837	15.6	6849	39.6	15859	18 0.8	30810	53.0	56404	53
8	45'3	26	8.6	1894	17.2	6963	43.1	16051	9.1	31131	34 22.8	56961	52
9	45'4	33	9.3	1950	18.9	7078	46.5	16245	17.5	31454	53.5	57522	51
10	45'5	40	10.1	2008	20.5	7194	50.1	16441	26.1	31780	35 25.0	58087	50
11	8°45'6	49	9°10'8	2067	10 22.2	7312	12°53'6	16639	18°34'8	32109	35°57'5	58657	49
12	45'7	58	11.6	2126	24.0	7430	57.2	16838	43.7	32441	36 30.7	59232	48
13	45'8	68	12.3	2187	25.7	7550	13 0.9	17039	52.7	32776	37 4.9	59809	47
14	46'0	79	13.1	2248	27.5	7670	4.6	17241	19 1.9	33115	40.1	60391	46
15	46'1	91	13.9	2310	29.2	7792	8.4	17445	11.3	33456	38 16.4	60976	45
16	8°46'3	103	9°14'8	2374	10°31'0	7915	13°12'2	17651	19°20'8	33800	38°53'5	61566	44
17	46'4	117	15.6	2438	32.9	8039	16.0	17858	30.5	34147	39 31.7	62158	43
18	46'6	131	16.4	2502	34.7	8165	20.0	18067	40.4	34498	40 11.1	62753	42
19	46'8	146	17.3	2568	36.6	8291	24.0	18278	50.4	34852	51.5	63351	41
20	47'0	162	18.1	2635	38.5	8419	28.0	18491	20 0.7	35209	41 33.1	63952	40
21	8°47'2	178	9°19'0	2703	10°40'4	8547	13°32'0	18705	20°11'1	35570	42°16'0	64555	39
22	47'4	196	19.9	2771	42.4	8677	36.2	18922	21.8	35933	43 0.1	65160	38
23	47'6	214	20.8	2841	44.3	8808	40.3	19140	32.6	36300	45.4	65766	37
24	47'8	233	21.7	2911	46.3	8941	44.5	19360	43.6	36671	44 32.1	66373	36
25	48'1	253	22.6	2982	48.3	9074	48.9	19581	54.9	37045	45 20.1	66981	35
26	8°48'3	274	9°23'6	3054	10°50'4	9209	13°53'3	19805	21° 6.4	37423	46° 9.6	67590	34
27	48'6	295	24.5	3127	52.4	9345	57.7	20030	18.1	37804	47 0.4	68198	33
28	48'9	317	25.5	3202	54.5	9482	14 2.2	20258	30.0	38189	52.8	68805	32
29	49'2	340	26.5	3277	56.6	9620	6.7	20487	42.2	38576	48 46.6	69411	31
30	49'5	365	27.5	3352	58.8	9759	11.3	20718	54.6	38969	49 42.0	70015	30
31	8°49'8	389	9 28.5	3429	11° 0.9	9900	14°16'0	20951	22° 7.3	39364	50°39'0	70615	29
32	50'1	415	29.5	3507	3.1	10042	20.8	21186	20.2	39764	51 37.7	71212	28
33	50'4	441	30.6	3586	5.3	10185	25.6	21423	33.4	40167	52 38.0	71804	27
34	50'7	468	31.6	3665	7.6	10330	30.5	21662	46.8	40574	53 39.9	72391	26
35	51'1	497	32.7	3746	9.9	10476	35.4	21903	23 0.6	40985	54 43.6	72971	25
36	8°51'4	525	9°33'8	3828	11°12'2	10623	14°40'4	22146	23°14'6	41400	55°49'1	73544	24
37	51'8	555	34.9	3910	14.5	10771	45.5	22392	28.9	41818	56 56.3	74110	23
38	52'2	585	36.0	3994	16.8	10921	50.7	22639	43.5	42241	58 5.3	74664	22
39	52'6	617	37.2	4078	19.2	11071	55.9	22888	58.5	42668	59 16.1	75209	21
40	53'0	649	38.3	4163	21.7	11224	15 1.3	23139	24 13.7	43099	60 28.7	75740	20
41	8°53'4	682	9°39'5	4250	11°24'1	11377	15° 6.7	23393	24°29'3	43534	61°43'1	76259	19
42	53'8	716	40.6	4337	26.6	11532	12.1	23649	45.2	43973	62 59.4	76764	18
43	54'2	751	41.8	4425	29.1	11688	17.7	23906	25 1.5	44417	64 17.4	77253	17
44	54'7	786	43.0	4515	31.6	11846	23.4	24166	18.2	44864	65 37.2	77724	16
45	55'1	823	44.3	4605	34.2	12004	29.1	24429	35.2	45317	66 58.7	78175	15
46	8°55'6	860	9°45'5	4696	11°36'8	12165	15°34'9	24693	25°52'6	45772	68°21'9	78608	14
47	56'1	898	46.8	4789	39.4	12326	40.8	24960	26 10.4	46233	69 46.8	79017	13
48	56'5	937	48.0	4882	42.1	12489	46.8	25229	28.6	46698	71 13.2	79404	12
49	57'0	977	49.3	4976	44.8	12653	52.9	25501	47.3	47168	72 41.2	79766	11
50	57'5	1017	50.6	5071	47.5	12819	59.1	25774	27 6.3	47642	74 10.6	80103	10
51	8°58'1	1059	9°52'0	5168	11°50'3	12986	16° 5.4	26050	27°25'8	48120	75°41'4	80411	9
52	58'6	1101	53.4	5265	53.1	13155	11.8	26329	45.8	48603	77 13.5	80693	8
53	59'1	1144	54.7	5363	55.9	13325	18.2	26610	28 6.3	49090	78 46.7	80942	7
54	59'7	1188	56.0	5462	58.8	13496	24.8	26893	27.3	49583	80 20.9	81161	6
55	9 0'2	1233	57.4	5563	12 1.7	13669	31.5	27179	48.7	50080	81 56.0	81349	5
56	9° 0'9	1278	9°58'8	5664	12° 4.6	13843	16°38'3	27467	29°10'7	50581	83°31'9	81504	4
57	1'4	1325	10 0.3	5767	7.6	14019	45.2	27758	33.3	51087	85 8.4	81623	3
58	2'0	1372	1.7	5870	10.6	14196	52.2	28051	56.4	51598	86 45.3	81711	2
59	2'6	1421	3.2	5975	13.7	14375	59.3	28347	30 20.0	52114	88 22.6	81764	1
60	3'2	1470	4.7	6080	16.8	14555	17 6.6	28646	44.3	52634	90 0.0	81780	0
	11 H		10 H		9 H		8 H		7 H		6 H		m

m	0 H			1 H			2 H			3 H			4 H			5 H			
0	9°	0-0	0	9°18-7	1468	10°21-8	6070	12°37-5	14526	17°34-6	28565	31°27-9	52330				60		
1		0-0	0	19-4	1518	23-4	6177	40-7	14708	42-1	28864	53-1	52848				59		
2		0-0	2	20-0	1568	24-9	6284	44-0	14891	49-8	29167	32 19-0	53369				58		
3		0-0	4	20-7	1619	26-5	6393	47-3	15074	57-6	29471	45-5	53893				57		
4		0-1	6	21-4	1673	28-1	6503	50-6	15260	18 5-5	29778	33 12-7	54424				56		
5		0-1	10	22-1	1726	29-8	6613	54-0	15448	13-6	30090	40-7	54959				55		
6	9°	0-2	15	9°22-8	1780	10°31-4	6725	12°57-5	15636	18°21-7	30402	34° 9-3	55497				54		
7		0-2	20	23-5	1835	33-1	6838	13 1-0	15827	30-1	30717	38-7	56041				53		
8		0-3	26	24-2	1891	34-7	6952	4-5	16019	38-6	31037	35 8-9	56588				52		
9		0-4	33	25-0	1948	36-4	7067	8-0	16212	47-2	31359	39-9	57137				51		
10		0-5	40	25-7	2006	38-2	7183	11-6	16407	55-9	31684	36 11-7	57690				50		
11	9°	0-7	49	9°26-5	2064	10°39-9	7299	13°15-3	16604	19° 4-9	32008	36°44-4	58250				49		
12		0-7	58	27-3	2123	41-7	7418	19-0	16802	13-9	32339	37 18-0	58814				48		
13		0-9	68	28-1	2183	43-5	7537	22-8	17003	23-2	32673	52-5	59380				47		
14		1-0	79	28-9	2245	45-3	7657	26-6	17205	32-6	33008	38 27-9	59950				46		
15		1-1	91	29-7	2307	47-1	7779	30-4	17408	42-2	33347	39 4-3	60523				45		
16	9°	1-3	103	9°30-6	2370	10°48-9	7902	13°34-4	17614	19°51-9	33688	39°41-7	61099				44		
17		1-5	117	31-4	2434	50-8	8027	38-3	17820	20 1-8	34034	40 20-1	61673				43		
18		1-6	131	32-3	2499	52-7	8152	42-3	18028	11-9	34382	59-7	62255				42		
19		1-8	146	33-1	2564	54-6	8277	46-4	18239	22-2	34734	41 40-3	62841				41		
20		2-0	162	34-0	2631	56-6	8405	50-5	18451	32-7	35090	42 22-1	63424				40		
21	9°	2-2	178	9°34-9	2699	10°58-6	8533	13°54-7	18666	20°43-3	35447	43° 5-0	64013				39		
22		2-5	196	35-9	2767	11 0-6	8663	58-9	18882	54-2	35808	49-2	64600				38		
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	11 H			10 H			9 H			8 H			7 H			6 H			m

m	0 H		1 H		2 H		3 H		4 H		5 H		
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9	15.4	33	40.7	1945	54.0	7055	29.5	16179	16.7	31260	36 25.5	56749	51
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	11 H		10 H		9 H		8 H		7 H		6 H		m

m	0 H	1 H	2 H	3 H	4 H	5 H							
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m	0 H		1 H		2 H		3 H		4 H		5 H		
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	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
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36	10°22.5	521	11°11.8	3791	13° 5.9	10503	17° 6.0	21813	26°46.5	40340	59°58.2	68711	24
37	22.9	550	13.1	3873	8.6	10650	11.9	22052	27 2.4	40735	61 0.7	69159	23
38	23.4	580	14.4	3955	11.4	10797	17.8	22294	18.6	41134	62 4.5	69595	22
39	23.8	612	15.7	4039	14.1	10946	23.8	22537	35.1	41536	63 9.6	70021	21
40	24.3	644	17.0	4123	16.9	11096	29.9	22782	52.0	41941	64 16.0	70435	20
41	10°24.8	676	11°18.4	4209	13°19.7	11247	17°36.1	23029	28° 9.2	42350	65°23.7	70838	19
42	25.2	710	19.7	4295	22.6	11400	42.4	23278	26.7	42762	66 32.7	71226	18
43	25.7	744	21.1	4383	25.5	11553	48.7	23529	44.6	43177	67 42.9	71600	17
44	26.3	779	22.5	4471	28.4	11709	55.2	23783	29 2.9	43596	68 54.3	71959	16
45	26.8	815	24.0	4560	31.4	11865	18 1.8	24038	21.6	44019	70 6.9	72302	15
46	10°27.3	852	11°25.4	4651	13°34.4	12023	18° 8.4	24296	29°40.7	44444	71°20.7	72628	14
47	27.9	890	26.9	4742	37.5	12182	15.2	24555	30 0.2	44873	72 35.6	72936	13
48	28.4	929	28.3	4834	40.6	12342	22.0	24817	20.1	45306	73 51.5	73225	12
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53	31.4	1134	36.0	5310	56.6	13165	57.9	26159	32 6.4	47521	80 24.9	74361	7
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55	32.7	1222	39.2	5508	14 3.2	13503	13.0	26711	52.3	48432	83 7.3	74659	5
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	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
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42	40:5	709	36:2	4288	41:9	11375	7:1	23213	29 2:4	42549	67 3:3	70359	18
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	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	10°45'0	0	11° 7'2	1451	12°21'9	5996	15° 1'8	14309	20°47'5	27947	36°15'7	50120	60
1	45'0	0	8'0	1501	23'7	6101	5'5	14486	56'2	28235	42'7	50582	59
2	45'0	2	8'7	1551	25'6	6207	9'4	14665	21 5'1	28526	37 10'3	51046	58
3	45'1	4	9'5	1602	27'4	6314	13'2	14846	14'0	28818	38'6	51511	57
4	45'1	6	10'4	1654	29'3	6422	17'2	15028	23'1	29114	38 7'5	51981	56
5	45'1	10	11'2	1707	31'2	6531	21'1	15211	32'4	29411	37'0	52452	55
6	10°45'2	14	11°12'0	1760	12°33'2	6641	15°25'2	15396	21°41'8	29711	39° 7'2	52926	54
7	45'3	20	12'9	1815	35'2	6753	29'3	15582	51'4	30014	38'2	53403	53
8	45'4	26	13'7	1870	37'1	6865	33'4	15770	22 1'1	30319	40 9'8	53880	52
9	45'6	32	14'6	1926	39'1	6978	37'6	15959	11'0	30627	42'2	54361	51
10	45'6	40	15'5	1983	41'2	7093	41'8	16150	21'1	30937	41 15'4	54844	50
11	10°45'7	48	11°16'4	2041	12°43'2	7208	15°46'1	16343	22°31'3	31249	41°49'3	55327	49
12	45'9	57	17'4	2100	45'3	7325	50'4	16537	41'7	31564	42 24'1	55812	48
13	46'0	67	18'3	2159	47'4	7442	54'8	16732	52'2	31883	59'6	56299	47
14	46'2	78	19'3	2220	49'6	7561	59'3	16929	23 3'0	32203	43 36'0	56787	46
15	46'4	90	20'2	2281	51'7	7672	16 3'8	17128	13'9	32526	44 13'3	57277	45
16	10°46'5	102	11°21'2	2344	12°53'9	7802	16° 8'4	17328	23°25'0	32852	44°51'4	57765	44
17	46'7	115	22'2	2407	56'1	7924	13'0	17530	36'3	33180	45 30'4	58257	43
18	46'9	129	23'2	2471	58'4	8047	17'7	17734	47'9	33512	46 10'4	58747	42
19	47'2	144	24'2	2536	13 0'7	8171	22'5	17939	59'6	33846	51'3	59236	41
20	47'4	160	25'3	2602	2'9	8296	27'3	18146	24 11'5	34182	47 33'2	59727	40
21	10°47'7	176	11°26'4	2668	13° 5'3	8423	16°32'2	18354	24°23'6	34522	48°16'1	60215	39
22	47'9	193	27'5	2736	7'6	8550	37'2	18565	36'0	34864	59'9	60703	38
23	48'2	211	28'6	2804	10'0	8679	42'2	18777	48'5	35209	49 44'8	61191	37
24	48'5	230	29'7	2874	12'4	8809	47'3	18990	25 1'3	35557	50 30'8	61675	36
25	48'8	250	30'8	2944	14'9	8940	52'4	19206	14'4	35908	51 17'8	62158	35
26	10°49'1	270	11°32'0	3015	13°17'3	9072	16°57'6	19423	25°27'6	36262	52° 5'9	62637	34
27	49'4	291	33'2	3087	19'8	9206	17 2'9	19642	41'1	36619	55'1	63112	33
28	49'7	314	34'3	3160	22'3	9340	8'3	19862	54'9	36979	53 45'4	63587	32
29	50'1	336	35'5	3235	24'9	9476	13'7	20084	26 8'9	37341	54 36'9	64056	31
30	50'4	360	36'8	3309	27'5	9613	19'3	20309	23'2	37707	55 29'5	64520	30
31	10°50'8	385	11°38'0	3385	13°30'1	9751	17°24'9	20535	26°37'8	38075	56°23'3	64980	29
32	51'2	410	39'2	3462	32'8	9890	30'5	20762	52'6	38447	57 18'2	65434	28
33	51'6	436	40'5	3539	35'5	10031	36'3	20992	27 7'7	38822	58 14'3	65882	27
34	52'0	463	41'8	3618	38'2	10173	42'1	21224	23'1	39199	59 11'6	66322	26
35	52'4	491	43'1	3697	40'9	10316	48'0	21457	38'8	39581	60 10'1	66753	25
36	10°52'8	519	11°44'4	3778	13°43'7	10460	17°54'0	21692	27°54'8	39964	61° 9'9	67177	24
37	53'3	548	45'8	3859	46'5	10605	18 0'1	21929	28 11'1	40351	62 10'7	67593	23
38	53'7	579	47'1	3941	49'4	10752	6'3	22168	27'8	40740	63 12'8	67998	22
39	54'2	610	48'5	4025	52'3	10900	12'5	22409	44'8	41135	64 16'1	68391	21
40	54'7	641	49'9	4109	55'2	11049	18'9	22652	29 2'1	41531	65 20'5	68774	20
41	10°55'2	674	11°51'3	4194	13°58'1	11200	18°25'3	22897	29°19'7	41930	66°26'1	69144	19
42	55'7	707	52'7	4280	14 1'1	11351	31'9	23144	37'8	42334	67 32'8	69503	18
43	56'2	742	54'2	4367	4'2	11504	38'5	23393	56'1	42739	68 40'6	69849	17
44	56'8	777	55'6	4455	7'2	11659	45'2	23644	30 14'9	43149	69 49'5	70176	16
45	57'3	813	57'1	4544	10'3	11814	52'0	23897	34'1	43561	70 59'5	70490	15
46	10°57'9	849	11°58'6	4634	14°13'5	11971	18°58'9	24152	30°53'6	43976	72°10'5	70791	14
47	58'5	887	12 0'2	4725	16'7	12129	19 6'0	24409	31 13'6	44395	73 22'4	71071	13
48	59'1	926	1'7	4817	19'9	12289	13'1	24667	34'0	44817	74 35'3	71335	12
49	59'7	965	3'3	4910	23'1	12449	20'3	24929	54'8	45242	75 49'1	71582	11
50	11 0'3	1005	4'9	5003	26'4	12612	27'7	25193	32 16'0	45670	77 3'7	71810	10
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53	2'2	1130	9'8	5291	36'6	13106	50'3	25995	33 22'5	46973	80 51'7	72373	7
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55	3'6	1218	13'1	5487	43'5	13443	20 6'1	26542	34 9'3	47857	83 26'7	72642	5
56	11° 4'3	1263	12°14'8	5587	14°47'1	13613	20°14'1	26818	34°33'5	48304	84°44'8	72741	4
57	5'0	1309	16'6	5688	50'7	13785	22'3	27097	58'2	48753	86 3'3	72821	3
58	5'7	1355	18'3	5790	54'3	13958	30'6	27378	35 23'5	49206	87 22'1	72879	2
59	6'4	1403	20'1	5893	58'0	14133	39'0	27662	49'3	49662	88 41'0	72914	1
60	7'2	1451	21'9	5996	15 1'8	14309	47'5	27947	36 15'7	50120	90 0'0	72927	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	11° 0'0	0	11°22'7	1449	12°39'0	5984	15°22'2	14275	21°14'6	27853	36°54'5	49792	60
1	0'0	0	23'5	1498	40'9	6089	26'1	14452	23'4	28138	37'21'6	50247	59
2	0'0	2	24'3	1548	42'8	6195	30'0	14630	32'5	28427	49'4	50704	58
3	0'1	4	25'1	1599	44'7	6302	34'0	14811	41'6	28718	38'17'8	51161	57
4	0'1	6	25'9	1651	46'6	6410	38'0	14992	50'9	29011	46'9	51621	56
5	0'2	10	26'8	1704	48'6	6519	42'0	15174	22'0'3	29307	39'16'6	52085	55
6	11° 0'2	14	11°27'6	1757	12°50'6	6628	15°46'1	15358	22°9'9	29606	39°47'0	52550	54
7	0'3	20	28'5	1811	52'6	6739	50'3	15544	19'6	29905	40'18'0	53017	53
8	0'4	26	29'4	1867	54'6	6852	54'5	15731	29'5	30209	49'8	53485	52
9	0'5	32	30'3	1923	56'6	6965	58'8	15920	39'5	30514	41'22'3	53957	51
10	0'6	40	31'2	1979	58'7	7078	16'3'1	16110	49'8	30822	55'6	54429	50
11	11° 0'7	48	11°32'1	2037	13°0'8	7194	16°7'5	16302	23°0'2	31133	42°29'6	54903	49
12	0'9	57	33'1	2096	2'9	7310	11'9	16495	10'7	31445	43'4'4	55378	48
13	1'0	67	34'0	2156	5'1	7427	16'4	16690	21'5	31761	40'0	55854	47
14	1'2	78	35'0	2216	7'3	7545	20'9	16886	32'4	32080	44'16'5	56331	46
15	1'4	90	36'0	2277	9'5	7665	25'5	17084	43'5	32400	53'7	56809	45
16	11° 1'6	102	11°37'0	2339	13°11'7	7786	16°30'2	17284	23°54'8	32722	45°31'9	57288	44
17	1'8	115	38'0	2403	14'0	7908	35'0	17485	24'6'3	33049	46'10'9	57766	43
18	2'0	129	39'1	2467	16'3	8030	39'7	17688	18'0	33378	50'8	58246	42
19	2'2	144	40'2	2531	18'6	8154	44'5	17892	29'9	33710	47'31'7	58723	41
20	2'5	160	41'2	2597	20'9	8280	49'5	18099	42'0	34043	48'13'5	59199	40
21	11° 2'7	176	11°42'3	2663	13°23'3	8406	16°54'5	18306	24°54'3	34380	48°56'2	59677	39
22	3'0	193	43'4	2731	25'7	8533	59'6	18516	25'6'8	34719	49'39'9	60151	38
23	3'3	211	44'5	2799	28'2	8661	17'4'7	18727	19'6	35062	50'24'7	60625	37
24	3'5	230	45'7	2869	30'6	8791	9'9	18940	32'6	35407	51'10'4	61099	36
25	3'9	249	46'8	2939	33'1	8922	15'1	19154	45'8	35755	57'2	61565	35
26	11° 4'2	270	11°48'0	3010	13°35'6	9054	17°20'5	19370	25°59'3	36107	52°45'0	62030	34
27	4'5	291	49'1	3082	38'2	9187	25'9	19588	26'13'0	36459	53'33'9	62495	33
28	4'8	313	50'4	3155	40'8	9321	31'3	19808	27'0	36817	54'23'9	62956	32
29	5'2	336	51'6	3229	43'4	9456	36'9	20029	41'2	37175	55'14'9	63408	31
30	5'6	360	52'9	3303	46'0	9593	42'5	20252	55'7	37538	56'7'1	63860	30
31	11° 5'9	384	11°54'1	3379	13°48'7	9730	17°48'0	20477	27°10'4	37902	57°0'4	64303	29
32	6'3	409	55'4	3455	51'4	9869	54'0	20704	25'5	38272	54'8	64742	28
33	6'7	435	56'7	3533	54'1	10010	59'9	20933	40'8	38642	58'50'4	65174	27
34	7'1	462	58'0	3611	56'9	10151	18'5'8	21163	56'4	39015	59'47'1	65597	26
35	7'6	490	59'4	3690	59'7	10294	11'8	21396	28'12'3	39392	60'44'9	66016	25
36	11° 8'0	518	12°0'7	3770	14°2'6	10438	18°17'9	21630	28°28'5	39773	61°43'8	66426	24
37	8'5	547	2'1	3852	5'5	10582	24'1	21866	45'1	40155	62'43'9	66824	23
38	8'9	578	3'5	3935	8'4	10729	30'4	22104	29'1'9	40542	63'45'2	67214	22
39	9'4	609	4'9	4018	11'3	10876	36'8	22344	19'1	40930	64'47'5	67594	21
40	9'9	641	6'3	4101	14'3	11025	43'3	22585	36'6	41322	65'51'0	67963	20
41	11°10'4	673	12°7'8	4186	14°17'3	11175	18°49'8	22829	29°54'5	41717	66°55'5	68318	19
42	11'0	707	9'2	4271	20'4	11326	56'5	23075	30'12'8	42115	68'1'2	68660	18
43	11'5	740	10'7	4359	23'5	11479	19'3'2	23323	31'4	42517	69'7'8	68993	17
44	12'0	776	12'2	4447	26'6	11633	10'1	23573	50'4	42922	70'15'5	69308	16
45	12'6	811	13'7	4536	29'7	11788	17'0	23824	31'9'7	43328	71'24'2	69611	15
46	11°13'2	849	12°15'3	4626	14°33'0	11944	19°24'1	24078	31°29'5	43740	72°33'9	69898	14
47	13'8	886	16'8	4716	36'2	12102	31'2	24333	49'7	44152	73'44'4	70167	13
48	14'4	924	18'4	4807	39'5	12261	38'5	24591	32'10'3	44567	74'55'8	70422	12
49	15'0	963	20'0	4900	42'8	12421	45'8	24851	31'3	44987	76'8'1	70656	11
50	15'6	1003	21'6	4994	46'2	12583	53'3	25113	52'7	45409	77'21'1	70875	10
51	11°16'3	1044	12°23'3	5089	14°49'6	12746	20°0'9	25377	33°14'7	45835	78°34'9	71072	9
52	16'9	1085	24'9	5184	53'0	12911	8'6	25644	37'1	46263	79'49'3	71250	8
53	17'6	1128	26'6	5281	56'5	13076	16'4	25912	59'9	46695	81'4'3	71411	7
54	18'3	1171	28'3	5379	15'0'1	13244	24'4	26182	34'23'3	47130	82'19'8	71552	6
55	19'0	1215	30'1	5477	3'7	13412	32'4	26455	47'1	47566	83'35'8	71668	5
56	11°19'7	1261	12°31'8	5577	15°7'3	13581	20°40'6	26730	35°11'5	48005	84°52'2	71765	4
57	20'4	1306	33'6	5677	11'0	13753	48'9	27007	36'4	48449	86'8'9	71842	3
58	21'2	1353	35'4	5779	14'7	13926	57'4	27287	36'1'9	48894	87'25'8	71894	2
59	21'9	1401	37'2	5881	18'4	14099	21'5'9	27568	27'9	49343	88'42'8	71929	1
60	22'7	1449	39'0	5984	22'2	14275	14'6	27853	54'5	49792	90'0'0	71940	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	11°15.0	0	11°38.2	1446	12°56.1	5973	15°42.7	14240	21°41.6	27755	37°32.6	49465	60
1	15.0	0	39.0	1496	58.0	6078	46.6	14417	50.6	28040	38 0.0	49910	59
2	15.0	2	39.8	1545	13 0.0	6183	50.6	14595	59.8	28326	27.9	50357	58
3	15.1	4	40.6	1596	1.9	6290	54.6	14774	22 9.0	28616	56.5	50808	57
4	15.1	6	41.5	1648	3.9	6397	58.7	14954	18.5	28907	39 25.7	51261	56
5	15.2	10	42.3	1701	5.9	6506	16 2.9	15136	28.0	29201	55.5	51715	55
6	11°15.2	14	11°43.2	1754	13° 7.9	6615	16° 7.1	15320	22°37.8	29497	40°26.0	52171	54
7	15.3	19	44.1	1808	9.9	6726	11.3	15505	47.6	29796	57.2	52630	53
8	15.4	26	45.0	1863	12.0	6838	15.6	15691	57.7	30096	41 29.1	53090	52
9	15.5	32	45.9	1919	14.1	6950	20.0	15880	23 7.9	30400	42 1.7	53551	51
10	15.6	40	46.9	1976	16.2	7064	24.4	16069	18.3	30706	35.0	54013	50
11	11°15.8	48	11°47.8	2034	13°18.4	7179	16°28.8	16260	23°28.9	31015	43° 9.1	54478	49
12	15.9	57	48.8	2092	20.6	7295	33.3	16453	39.6	31325	44.0	54943	48
13	16.1	67	49.8	2152	22.8	7412	37.9	16647	50.5	31638	44 19.6	55409	47
14	16.2	78	50.8	2212	25.0	7530	42.6	16843	24 1.6	31954	56.1	55876	46
15	16.4	90	51.8	2273	27.2	7650	47.3	17040	12.9	32272	45 33.4	56342	45
16	11°16.6	102	11°52.8	2335	13°29.5	7770	16°52.0	17239	24°24.4	32593	46°11.5	56808	44
17	16.8	115	53.9	2398	31.8	7891	56.8	17439	36.1	32916	50.5	57277	43
18	17.0	129	54.9	2462	34.2	8014	17 1.7	17641	47.9	33243	47 30.3	57743	42
19	17.3	144	56.0	2527	36.5	8137	6.7	17845	25 0.0	33571	48 11.1	58210	41
20	17.5	159	57.1	2592	38.9	8262	11.7	18050	12.3	33903	52.8	58674	40
21	11°17.8	176	11°58.2	2659	13°41.4	8388	17°16.8	18257	25°24.8	34236	49°35.4	59138	39
22	18.0	193	59.4	2726	43.8	8515	21.9	18466	37.5	34573	50 18.9	59602	38
23	18.3	211	12 0.5	2794	46.1	8643	27.1	18676	50.5	34912	51 3.5	60062	37
24	18.6	230	1.7	2863	48.8	8772	32.4	18888	26 3.6	35255	49.0	60520	36
25	18.9	249	2.9	2933	51.3	8903	37.8	19101	17.1	35600	52 35.5	60977	35
26	11°19.3	269	12° 4.1	3004	13°53.9	9034	17°43.2	19317	26°30.7	35947	53°23.1	61430	34
27	19.6	290	5.3	3076	56.5	9167	48.7	19534	44.6	36298	54 11.6	61879	33
28	19.9	312	6.5	3149	59.1	9301	54.3	19753	58.8	36651	55 1.2	62323	32
29	20.3	336	7.8	3223	14 1.8	9436	18 0.0	19973	27 13.2	37007	51.9	62764	31
30	20.7	359	9.0	3297	4.5	9572	5.7	20195	27.9	37366	56 43.6	63199	30
31	11°21.1	383	12°10.3	3373	14° 7.2	9710	18°11.5	20419	27°42.8	37727	57°36.4	63631	29
32	21.5	408	11.6	3449	10.0	9848	17.4	20645	58.1	38092	58 30.3	64055	28
33	21.9	434	12.9	3526	12.8	9988	23.4	20873	28 13.6	38459	59 25.3	64474	27
34	22.3	461	14.3	3605	15.6	10129	29.4	21102	29.4	38829	60 21.3	64883	26
35	22.7	489	15.6	3684	18.5	10271	35.5	21333	45.5	39202	61 18.4	65287	25
36	11°23.2	517	12°17.0	3764	14°21.4	10414	18°41.8	21566	29° 1.9	39578	62°16.7	65680	24
37	23.7	546	18.4	3845	24.3	10559	48.1	21802	18.7	39957	63 16.0	66066	23
38	24.1	577	19.8	3927	27.3	10705	54.5	22038	35.9	40338	64 16.4	66442	22
39	24.6	608	21.3	4010	30.3	10852	19 1.0	22277	53.1	40723	65 17.8	66808	21
40	25.1	639	22.7	4093	33.4	11000	7.6	22517	30 10.9	41111	66 20.3	67162	20
41	11°25.7	672	12°24.2	4178	14°36.4	11150	19°14.3	22760	30°29.0	41502	67°23.9	67507	19
42	26.2	705	25.7	4263	39.6	11301	21.0	23004	47.4	41895	68 28.4	67836	18
43	26.7	739	27.2	4351	42.6	11453	27.9	23251	31 6.2	42291	69 34.0	68153	17
44	27.3	774	28.7	4438	45.8	11606	34.9	23499	25.4	42690	70 40.5	68459	16
45	27.9	810	30.3	4527	49.1	11761	41.9	23750	45.0	43093	71 47.9	68746	15
46	11°28.5	847	12°31.9	4616	14°52.4	11917	19°49.1	24002	32° 5.0	43498	72°56.3	69022	14
47	29.1	884	33.5	4707	55.7	12074	56.4	24257	25.4	43905	74 5.5	69282	13
48	29.7	922	35.1	4798	59.1	12233	20 3.8	24513	46.1	44317	75 15.5	69522	12
49	30.3	961	36.7	4891	15 2.5	12393	11.3	24771	33 7.4	44730	76 26.4	69747	11
50	31.0	1001	38.4	4984	5.9	12554	18.9	25032	29.0	45147	77 37.9	69956	10
51	11°31.6	1042	12°40.0	5079	15° 9.4	12716	20°26.6	25295	33°51.2	45566	78°50.1	70148	9
52	32.3	1084	41.7	5174	12.9	12880	34.5	25559	34 13.7	45989	80 2.9	70317	8
53	33.0	1126	43.5	5270	16.5	13045	42.4	25826	36.8	46414	81 16.3	70469	7
54	33.7	1169	45.2	5368	20.1	13212	50.5	26095	35 0.3	46841	82 30.2	70604	6
55	34.4	1213	47.0	5466	23.7	13380	58.8	26366	24.4	47272	83 44.5	70717	5
56	11°35.1	1258	12°48.8	5566	15°27.4	13549	21° 7.0	26640	35°49.0	47705	84°59.1	70811	4
57	35.9	1304	50.6	5666	31.2	13720	15.5	26915	36 14.0	48141	86 14.0	70883	3
58	36.6	1351	52.4	5767	35.0	13892	24.1	27193	39.7	48580	87 29.2	70935	2
59	37.4	1398	54.3	5870	38.8	14065	32.8	27473	37 5.9	49021	88 44.6	70966	1
60	38.2	1446	56.1	5973	42.7	14240	41.6	27755	32.6	49465	90 0.0	70976	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	11°30.0	0	11°53.7	1444	13°13.2	5961	16° 3.1	14205	22° 8.5	27656	38°10.2	49135	60
1	30.0	0	54.5	1493	15.2	6065	7.1	14381	17.6	27939	37.7	49571	59
2	30.0	2	55.3	1543	17.1	6171	11.2	14558	26.9	28224	39 5.8	50012	58
3	30.1	4	56.2	1593	19.1	6277	15.3	14737	36.4	28512	34.5	50454	57
4	30.1	6	57.0	1645	21.1	6384	19.5	14917	45.9	28801	40 3.8	50897	56
5	30.2	10	57.9	1697	23.2	6492	23.7	15098	55.7	29093	33.8	51344	55
6	11°30.2	14	11°58.8	1751	13°25.2	6602	16°27.9	15281	23° 5.6	29387	41° 4.4	51791	54
7	30.3	19	59.7	1805	27.3	6712	32.3	15465	15.6	29684	35.7	52242	53
8	30.4	26	12 0.6	1860	29.4	6823	36.6	15650	25.8	29983	42 7.6	52694	52
9	30.5	32	1.6	1916	31.6	6936	41.1	15838	36.2	30284	40.3	53145	51
10	30.6	40	2.5	1972	33.7	7050	45.6	16028	46.7	30588	43 13.7	53597	50
11	11°30.8	48	12° 3.5	2030	13°35.9	7164	16°50.1	16218	23°57.5	30894	43°47.8	54052	49
12	30.9	57	4.5	2088	38.2	7280	54.7	16410	24 8.3	31202	44 22.7	54509	48
13	31.1	67	5.5	2148	40.4	7397	59.4	16603	19.4	31514	58.4	54963	47
14	31.3	78	6.5	2208	42.7	7514	17 4.1	16798	30.7	31826	45 34.9	55420	46
15	31.4	89	7.6	2269	45.0	7633	8.9	16994	42.1	32142	46 12.1	55875	45
16	11°31.6	102	12° 8.6	2331	13°47.3	7753	17°13.8	17192	24°53.8	32461	46°50.2	56333	44
17	31.9	115	9.7	2394	49.7	7874	18.7	17392	25 5.6	32782	47 29.1	56787	43
18	32.1	129	10.8	2458	52.0	7996	23.7	17594	17.7	33105	48 8.9	57242	42
19	32.3	144	11.9	2522	54.5	8120	28.7	17796	29.9	33431	49.6	57698	41
20	32.6	159	13.0	2588	56.9	8244	33.8	18001	42.4	33759	49 31.1	58153	40
21	11°32.8	175	12°14.1	2654	13°59.4	8370	17°39.0	18207	25°55.1	34091	50°13.6	58604	39
22	33.1	192	15.3	2721	14 1.9	8496	44.2	18415	26 8.0	34425	57.0	59054	38
23	33.4	210	16.5	2789	4.4	8624	49.5	18624	21.1	34761	51 41.3	59502	37
24	33.7	229	17.6	2858	7.0	8753	54.9	18834	34.5	35101	52 26.6	59950	36
25	34.0	248	18.9	2928	9.6	8883	18 0.4	19048	48.1	35442	53 12.8	60391	35
26	11°34.3	269	12°20.1	2999	14°12.2	9015	18° 5.9	19263	27° 1.9	35787	54° 0.1	60830	34
27	34.7	290	21.3	3070	14.8	9147	11.5	19478	16.0	36134	48.3	61267	33
28	35.0	312	22.6	3143	17.5	9281	17.2	19696	30.3	36484	55 37.5	61698	32
29	35.4	335	23.9	3217	20.2	9415	23.0	19915	45.0	36836	56 27.8	62127	31
30	35.8	358	25.2	3292	23.0	9551	28.8	20136	59.8	37192	57 19.1	62550	30
31	11°36.2	382	12°26.5	3366	14°25.8	9688	18°34.7	20360	28°15.0	37549	58°11.3	62966	29
32	36.6	407	27.8	3443	28.6	9826	40.7	20585	30.4	37910	59 4.7	63376	28
33	37.0	434	29.1	3520	31.5	9966	46.8	20811	46.1	38274	59.1	63780	27
34	37.5	460	30.5	3598	34.3	10106	53.0	21039	29 2.1	38640	60 54.5	64178	26
35	37.9	488	31.9	3677	37.3	10248	59.2	21270	18.4	39009	61 50.9	64567	25
36	11°38.4	516	12°33.3	3757	14°40.2	10391	19° 5.5	21502	29°35.1	39382	62°48.4	64947	24
37	38.8	546	34.7	3837	43.2	10535	12.0	21736	52.0	39756	63 47.0	65319	23
38	39.3	576	36.2	3919	46.3	10681	18.5	21971	30 9.3	40134	64 46.5	65682	22
39	39.8	606	37.7	4002	49.3	10827	25.1	22209	26.9	40514	65 47.1	66035	21
40	40.4	638	39.1	4086	52.4	10975	31.8	22449	44.8	40896	66 48.6	66376	20
41	11°40.9	670	12°40.6	4170	14°55.6	11124	19°38.6	22690	31° 3.1	41283	67°51.2	66706	19
42	41.4	703	42.2	4256	58.7	11275	45.5	22932	21.7	41670	68 54.7	67023	18
43	42.0	738	43.7	4342	15 2.0	11426	52.5	23178	40.8	42063	69 59.1	67329	17
44	42.6	772	45.3	4429	5.2	11580	59.6	23424	32 0.2	42458	71 4.5	67622	16
45	43.1	809	46.9	4518	8.5	11734	20 6.8	23674	19.9	42855	72 10.7	67899	15
46	11°43.7	845	12°48.5	4607	15°11.9	11889	20°14.1	23925	32°40.1	43254	73°17.8	68163	14
47	44.4	882	50.1	4698	15.2	12046	21.5	24178	33 0.6	43658	74 25.8	68411	13
48	45.0	921	51.7	4788	18.6	12204	29.0	24433	21.6	44063	75 34.4	68642	12
49	45.6	960	53.4	4881	22.1	12363	36.6	24690	43.0	44471	76 43.9	68859	11
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24	18.9	228	5.5	2841	15 1.4	8694	19 2.1	18671	28 5.6	34624	54 13.7	58250	36
25	19.3	247	6.8	2911	4.1	8823	7.8	18881	19.8	34957	59.0	58658	35
26	12°19.6	267	13° 8.1	2981	15° 6.9	8953	19°13.7	19093	28°34.1	35292	55°45.3	59062	34
27	20.0	288	9.4	3052	9.7	9085	19.6	19306	48.7	35629	56 32.4	59461	33
28	20.4	310	10.8	3124	12.5	9217	25.6	19521	29 3.6	35969	57 20.4	59856	32
29	20.7	333	12.1	3197	15.4	9351	31.6	19737	18.7	36311	58 9.4	60246	31
30	21.1	356	13.5	3271	18.3	9485	37.8	19956	34.1	36656	59.2	60631	30
31	12°21.6	380	13°14.9	3346	15°21.3	9621	19°44.0	20175	29°49.8	37004	59°50.0	61010	29
32	22.0	405	16.3	3422	24.3	9758	50.3	20397	30 5.8	37353	60 41.7	61383	28
33	22.5	431	17.7	3499	27.3	9896	56.7	20620	22.0	37706	61 34.3	61749	27
34	22.9	458	19.2	3576	30.3	10036	20 3.2	20846	38.6	38061	62 27.8	62110	26
35	23.4	485	20.7	3655	33.4	10176	9.8	21072	55.4	38418	63 22.2	62460	25
36	12°23.9	513	13°22.2	3734	15°36.6	10318	20°16.4	21301	31°12.6	38778	64°17.5	62804	24
37	24.4	543	23.7	3815	39.7	10461	23.2	21531	30.1	39140	65 13.8	63138	23
38	24.9	572	25.2	3896	42.9	10605	30.0	21763	47.9	39505	66 10.9	63464	22
39	25.4	603	26.8	3978	46.2	10750	37.0	21998	32 6.0	39872	67 8.9	63780	21
40	26.0	634	28.3	4061	49.5	10896	44.0	22233	24.5	40242	68 7.7	64084	20
41	12°26.6	667	13°29.9	4145	15°52.8	11045	20°51.2	22471	32°43.3	40614	69° 7.4	64381	19
42	27.1	700	31.5	4230	56.1	11194	58.4	22710	33 2.5	40990	70 7.9	64665	18
43	27.7	734	33.2	4316	59.6	11344	21 5.8	22952	22.0	41366	71 9.2	64936	17
44	28.3	768	34.8	4403	16 3.0	11495	13.2	23195	42.0	41746	72 11.3	65196	16
45	29.0	804	36.5	4490	6.5	11648	20.8	23440	34 2.3	42129	73 14.2	65444	15
46	12°29.6	840	13°38.2	4579	16°10.0	11803	21°28.4	23687	34°23.0	42513	74°17.7	65676	14
47	30.2	877	40.0	4669	13.6	11958	36.2	23936	44.1	42900	75 22.0	65897	13
48	30.9	916	41.7	4760	17.2	12114	44.1	24187	35 5.6	43289	76 26.9	66103	12
49	31.6	954	43.5	4851	20.9	12272	52.1	24439	27.5	43681	77 32.4	66296	11
50	32.3	994	45.3	4944	24.6	12431	22 0.2	24694	49.8	44074	78 38.4	66470	10
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52	33.7	1076	48.9	5132	32.1	12753	16.8	25209	35.9	44870	80 52.1	66776	8
53	34.5	1118	50.8	5227	35.9	12916	25.3	25470	59.6	45270	81 59.6	66907	7
54	35.2	1160	52.7	5324	39.8	13081	33.9	25733	37 23.8	45673	83 7.5	67016	6
55	36.0	1204	54.6	5421	43.8	13247	42.6	25998	48.5	46078	84 15.8	67113	5
56	12°36.8	1249	13°56.5	5520	16°47.7	13413	22°51.5	26264	38°13.7	46484	85°24.3	67190	4
57	37.6	1294	58.5	5619	51.8	13582	23 0.5	26533	39.3	46893	86 33.0	67251	3
58	38.4	1340	14 0.4	5720	55.8	13752	9.7	26804	39 5.6	47304	87 41.9	67294	2
59	39.3	1388	2.4	5821	17 0.0	13923	18.9	27077	32.3	47716	88 50.9	67322	1
60	40.1	1436	4.5	5924	4.2	14095	28.3	27352	59.6	48130	90 0.0	67330	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	12°30·0	0	12°55·6	1433	14°21·5	5911	17°24·4	14058	23°54·7	27247	40°34·9	47793	60
1	30·0	0	56·5	1481	23·6	6014	28·8	14231	24 4·4	27522	41 2·9	48201	59
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3	30·1	4	58·3	1581	27·9	6222	37·5	14582	24·3	28080	42 0·4	49022	57
4	30·1	6	59·2	1633	30·1	6328	42·0	14759	34·4	28361	30·1	49435	56
5	30·2	10	13 0·2	1685	32·3	6436	46·5	14937	44·7	28645	43 0·4	49849	55
6	12°30·2	14	13° 1·1	1738	14°34·5	6545	17°51·1	15118	24°55·2	28932	43°31·3	50264	54
7	30·3	19	2·1	1791	36·7	6654	55·8	15299	25 5·9	29220	44 2·8	50680	53
8	30·4	25	3·1	1845	39·0	6764	18 0·5	15483	16·7	29509	34·9	51096	52
9	30·6	32	4·1	1901	41·3	6876	5·2	15667	27·6	29802	45 7·7	51512	51
10	30·7	39	5·2	1957	43·7	6988	10·0	15853	38·8	30096	41·2	51930	50
11	12 30·8	48	13° 6·2	2014	14°46·0	7102	18°14·9	16040	25°50·1	30393	46°15·4	52346	49
12	31·0	57	7·3	2072	48·4	7216	19·9	16229	26 1·6	30692	50·3	52763	48
13	31·2	67	8·4	2131	50·8	7332	24·9	16419	13·3	30995	47 25·8	53180	47
14	31·4	77	9·5	2191	53·3	7448	29·9	16611	25·2	31298	48 2·1	53597	46
15	31·6	89	10·6	2251	55 8	7566	35·1	16804	37·3	31604	39·1	54014	45
16	12°31·8	101	13°11·7	2313	14°58·3	7684	18°40·3	17000	26°49·6	31912	49°16·9	54428	44
17	32·0	114	12·9	2375	15 0·8	7804	45·5	17197	27 2·1	32223	55·5	54844	43
18	32·2	128	14·1	2438	3·4	7926	50·9	17394	14·8	32536	50 34·8	55254	42
19	32·5	142	15·3	2502	6·0	8048	56·3	17594	27·7	32851	51 14·9	55668	41
20	32·8	158	16·5	2567	8·6	8171	19 1·7	17795	40·8	33168	55·8	56078	40
21	12°33·1	174	13°17·7	2633	15°11·3	8295	19° 7·3	17997	27°54·2	33489	52°37·5	56485	39
22	33·4	191	19·0	2700	14·0	8420	12·9	18201	28 7·7	33810	53 20·0	56890	38
23	33·7	209	20·2	2767	16·7	8546	18·6	18407	21·5	34134	54 3·3	57292	37
24	34·0	228	21·5	2836	19·5	8674	24·4	18614	35·6	34462	47·5	57692	36
25	34·3	247	22·7	2905	22·3	8802	30·2	18823	50·1	34793	55 32·6	58088	35
26	12°34·7	267	13°24·1	2975	15°25·1	8932	19°36·1	19034	29° 4·4	35123	56°18·5	58480	34
27	35·1	288	25·5	3046	28·0	9063	42·1	19246	19·2	35458	57 5·2	58868	33
28	35·5	310	26·8	3117	30·9	9195	48·2	19459	34·2	35793	52·8	59251	32
29	35·9	332	28·2	3191	33·8	9328	54·4	19674	49·5	36133	58 41·3	59630	31
30	36·3	355	29·6	3265	36·7	9462	20 0·6	19892	30 5·1	36474	59 30·7	60004	30
31	12°36·7	380	13°31·0	3339	15°39·8	9598	20° 6·9	20111	30°20·9	36818	60°21·0	60370	29
32	37·1	405	32·5	3415	42·8	9735	13·4	20332	37·0	37165	61 12·1	60730	28
33	37·6	430	33·9	3491	45·9	9872	19·9	20555	53·5	37512	62 4·1	61087	27
34	38·1	457	35·4	3568	49·0	10012	26·4	20778	31 10·2	37864	57·0	61435	26
35	38·5	484	36·9	3647	52·1	10152	33·1	21004	27·2	38217	63 50·8	61775	25
36	12°39·0	512	13°38·4	3726	15°55·3	10293	20°39·9	21231	31°44·5	38573	64°45·4	62106	24
37	39·6	542	40·0	3807	58·5	10435	46·8	21460	32 2·2	38930	65 40·9	62431	23
38	40·1	572	41·5	3888	16 1·8	10579	53·7	21692	20·1	39290	66 37·2	62747	22
39	40·6	602	43·1	3969	5·1	10724	21 0·8	21925	38·4	39655	67 34·3	63051	21
40	41·2	633	44·7	4053	8·4	10870	7·9	22159	57·1	40020	68 32·3	63345	20
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42	42·4	699	48·0	4221	15·2	11166	22·5	22633	35·4	40759	70 30·6	63903	18
43	43·0	732	49·7	4307	18·7	11316	30·0	22873	55·1	41130	71 31·0	64167	17
44	43·6	767	51·4	4393	22·2	11467	37·6	23116	34 15·2	41506	72 32·0	64415	16
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46	12°44·9	839	13°54·8	4569	16°29·3	11772	21°53·0	23605	34°56·5	42263	74°36·2	64879	14
47	45·5	876	56·6	4659	33·0	11927	22 0·9	23852	35 17·7	42643	75 39·3	65091	13
48	46·2	913	58·3	4750	36·7	12083	8·9	24101	39·4	43026	76 43·0	65287	12
49	46·9	952	14 0·1	4841	40·4	12240	17·0	24353	36 1·5	43414	77 47·3	65473	11
50	47·6	992	2·0	4933	44·1	12399	25·3	24606	24·0	43801	78 52·1	65642	10
51	12°48·3	1032	14° 3·8	5027	16°48·0	12559	22°33·7	24861	36°46·9	44191	79°57·5	65795	9
52	49·1	1074	5·7	5121	51·8	12721	42·1	25119	37 10·3	44584	81 3·2	65934	8
53	49·8	1116	7·6	5216	55·7	12883	50·7	25377	34·2	44980	82 3·4	66058	7
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56	12°52·2	1246	14°13·4	5508	17° 7·7	13378	23°17·3	26167	38°48·6	46174	85°29·9	66330	4
57	53·0	1292	15·4	5607	11·8	13546	26·5	26434	39 14·4	46577	86 37·3	66390	3
58	53·9	1338	17·4	5708	16·0	13715	35·8	26704	40·7	46981	87 44·8	66432	2
59	54·7	1385	19·5	5808	20·2	13885	45·2	26975	40 7·5	47387	88 52·4	66458	1
60	55·6	1433	21·5	5911	24·4	14058	54·7	27247	34·9	47793	90 0·0	66466	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	12°45-0	0	13°11-1	1430	14°38-6	5897	17°44-7	14019	24°21-0	27142	41° 9-7	47456	60
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2	45-0	2	12-9	1528	42-9	6104	53-5	14365	40-9	27690	42 6-4	48260	58
3	45-1	4	13-8	1578	45-1	6209	58-0	14541	50-9	27968	35-5	48663	57
4	45-1	6	14-8	1629	47-3	6315	18 2-5	14718	25 1-2	28248	43 5-2	49069	56
5	45-2	10	15-7	1681	49-5	6422	7-1	14896	11-7	28529	35-5	49474	55
6	12°45-3	14	13°16-7	1734	14°51-8	6530	18°11-8	15075	25°22-3	28813	44° 6-4	49881	54
7	45-4	19	17-7	1787	54-1	6639	16-5	15256	33-0	29099	37-9	50288	53
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9	45-6	32	19-8	1897	58-7	6860	26-1	15622	55-1	29678	42-9	51104	51
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11	12°45-8	48	13°21-9	2010	15° 3-5	7085	18°36-0	15994	26°17-9	30265	46°50-5	51920	49
12	46-0	57	23-0	2068	5-9	7199	41-0	16182	29-5	30561	47 25-3	52328	48
13	46-2	66	24-1	2127	8-4	7315	46-1	16372	41-4	30860	48 0-8	52737	47
14	46-4	77	25-2	2186	10-9	7431	51-3	16564	53-4	31162	37-0	53146	46
15	46-6	89	26-4	2247	13-4	7548	56-5	16756	27 5-7	31465	49 14-0	53551	45
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17	47-0	114	28-7	2370	18-6	7786	7-1	17145	30-7	32079	50 30-0	54362	43
18	47-3	128	29-9	2433	21-2	7907	12-5	17342	43-6	32389	51 9-2	54764	42
19	47-6	142	31-1	2497	23-8	8028	18-0	17541	56-6	32702	49-1	55165	41
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27	50-2	287	41-5	3040	46-2	9041	20 4-6	19186	49-3	35283	57 37-2	58280	33
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29	51-0	332	44-3	3184	52-1	9305	17-1	19613	20-0	35952	59 12-4	59021	31
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52	4-4	1071	22-4	5110	11-5	12687	23 7-4	25026	44-3	44299	81 13-9	65109	8
53	5-2	1116	24-4	5205	15-5	12848	16-1	25284	38 8-2	44687	82 18-8	65229	7
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57	8-5	1289	32-3	5594	31-9	13509	52-3	26333	48-9	46260	86 41-4	65548	3
58	9-3	1335	34-4	5694	36-1	13678	24 1-7	26600	40 15-3	46657	87 47-5	65589	2
59	10-2	1382	36-5	5795	40-4	13848	11-3	26870	42-3	47056	88 53-7	65613	1
60	11-1	1430	38-6	5897	44-7	14019	21-0	27142	41 9-7	47456	90 0-0	65620	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	13° 0·0	0	13°26·5	1427	14°55·6	5883	18° 4·9	13980	24°47·1	27034	41°44·0	47115	60
1	0·0	0	27·5	1475	57·8	5986	9·4	14151	57·0	27305	42 12·1	47511	59
2	0·0	2	28·4	1525	15 0·0	6090	13·9	14325	25 7·1	27579	40·7	47906	58
3	0·1	4	29·3	1575	2·2	6195	18·4	14499	17·4	27855	43 9·9	48303	57
4	0·1	6	30·3	1626	4·4	6300	23·0	14676	27·8	28132	39·6	48700	56
5	0·2	10	31·3	1678	6·7	6407	27·7	14853	38·4	28411	44 10·0	49097	55
6	13° 0·3	14	13°32·3	1730	15° 9·0	6515	18°32·5	15031	25°49·2	28694	44°40·9	49497	54
7	0·4	19	33·3	1784	11·4	6623	37·3	15212	26 0·1	28979	45 12·5	49898	53
8	0·5	25	34·3	1838	13·7	6733	42·1	15394	11·2	29264	44·6	50297	52
9	0·6	32	35·4	1893	16·1	6844	47·0	15577	22·4	29552	46 17·4	50696	51
10	0·7	39	36·5	1949	18·5	6956	52·0	15762	33·9	29841	50·8	51096	50
11	13° 0·9	48	13°37·6	2006	15°21·0	7068	18°57·1	15947	26°45·5	30134	47°24·9	51496	49
12	1·0	56	38·7	2064	23·5	7182	19 2·1	16134	57·3	30429	59·7	51894	48
13	1·2	66	39·8	2122	26·0	7297	7·3	16323	27 9·3	30724	48 35·1	52294	47
14	1·4	77	40·9	2181	28·5	7413	12·6	16514	21·5	31024	49 11·3	52694	46
15	1·6	88	42·1	2242	31·1	7530	17·9	16706	33·8	31324	48·1	53089	45
16	13° 1·8	101	13°43·3	2303	15°33·7	7648	19°23·2	16898	27°46·4	31628	50°25·6	53485	44
17	2·1	114	44·5	2365	36·3	7767	28·7	17092	59·2	31933	51 3·9	53881	43
18	2·3	127	45·7	2428	39·0	7887	34·2	17289	28 12·2	32241	42·9	54276	42
19	2·6	142	46·9	2492	41·7	8009	39·8	17487	25·4	32551	52 22·6	54666	41
20	2·9	157	48·2	2556	44·4	8131	45·4	17686	38·8	32863	53 3·1	55056	40
21	13° 3·2	173	13°49·5	2622	15°47·2	8255	19°51·1	17887	28°52·5	33175	53°44·3	55441	39
22	3·5	191	50·8	2688	49·9	8380	56·9	18089	29 6·3	33492	54 26·3	55825	38
23	3·8	208	52·1	2755	52·8	8505	20 2·8	18292	20·4	33810	55 9·1	56207	37
24	4·1	227	53·4	2823	55·7	8632	8·7	18498	34·8	34132	52·7	56586	36
25	4·5	246	54·8	2893	58·5	8760	14·8	18706	49·4	34455	56 37·1	56961	35
26	13° 4·9	266	13°56·1	2963	16° 1·4	8888	20°20·9	18914	30° 4·2	34780	57°22·3	57333	34
27	5·3	287	57·5	3033	4·4	9019	27·1	19124	19·3	35108	58 8·3	57698	33
28	5·7	308	58·9	3105	7·4	9150	33·3	19337	34·6	35437	55·0	58060	32
29	6·1	331	14 0·4	3177	10·4	9282	39·7	19550	50·2	35769	59 42·6	58417	31
30	6·5	353	1·8	3251	13·5	9416	46·1	19765	31 6·1	36105	60 31·0	58767	30
31	13° 6·9	378	14° 3·3	3325	16°16·6	9550	20°52·7	19982	31°22·3	36441	61°20·3	59112	29
32	7·4	403	4·8	3400	19·8	9686	59·3	20200	38·7	36779	62 10·3	59452	28
33	7·9	429	6·3	3476	22·9	9823	21 6·0	20420	55·4	37119	63 1·1	59786	27
34	8·4	455	7·8	3553	26·2	9961	12·8	20642	32 12·5	37462	52·8	60111	26
35	8·9	482	9·4	3631	29·4	10100	19·6	20865	29·8	37808	64 45·2	60430	25
36	13° 9·4	510	14°11·0	3710	16°32·7	10241	21°26·6	21090	32°47·4	38155	65°38·4	60745	24
37	9·9	539	12·6	3790	36·0	10383	33·7	21317	33 5·4	38506	66 32·5	61054	23
38	10·5	569	14·2	3871	39·4	10525	40·9	21546	23·7	38859	67 27·2	61338	22
39	11·0	599	15·8	3952	42·8	10669	48·1	21776	42·3	39213	68 22·8	61622	21
40	11·6	631	17·5	4035	46·3	10814	55·5	22008	34 1·2	39570	69 19·1	61897	20
41	13°12·2	663	14°19·2	4118	16°49·8	10961	22° 3·0	22242	34°20·5	39928	70°16·1	62163	19
42	12·8	695	20·9	4203	53·3	11108	10·6	22478	40·1	40289	71 13·8	62416	18
43	13·4	729	22·6	4288	56·9	11257	18·2	22714	35 0·1	40652	72 12·2	62662	17
44	14·1	764	24·3	4374	17 0·5	11407	26·0	22954	20·5	41018	73 11·3	62893	16
45	14·7	799	26·1	4461	4·2	11558	33·9	23195	41·2	41385	74 11·0	63114	15
46	13°15·4	835	14°27·9	4549	17° 7·9	11711	22°41·9	23437	36° 2·4	41753	75°11·3	63324	14
47	16·1	872	29·7	4639	11·7	11865	50·1	23683	23·9	42125	76 12·2	63519	13
48	16·8	910	31·6	4729	15·5	12020	58·3	23929	45·8	42499	77 13·6	63700	12
49	17·5	949	33·5	4819	19·3	12176	23 6·7	24177	37 8·2	42874	78 15·6	63871	11
50	18·3	988	35·3	4911	23·2	12333	15·1	24427	30·9	43251	79 18·1	64032	10
51	13°19·0	1028	14°37·3	5004	17°27·2	12492	23°23·7	24679	37°54·1	43631	80°20·9	64172	9
52	19·8	1069	39·2	5098	31·2	12652	32·5	24933	38 17·8	44012	81 24·2	64302	8
53	20·6	1111	41·2	5193	35·2	12813	41·3	25189	41·8	44393	82 27·9	64415	7
54	21·4	1154	43·2	5288	39·3	12975	50·3	25447	39 6·4	44778	83 31·9	64514	6
55	22·2	1197	45·2	5385	43·4	13140	59·4	25707	31·4	45164	84 36·1	64598	5
56	13°23·0	1241	14°47·2	5483	17°47·6	13305	24° 8·7	25968	39°56·9	45551	85°40·6	64666	4
57	23·9	1287	49·3	5582	51·9	13472	18·1	26232	40 22·9	45941	86 45·3	64721	3
58	24·7	1333	51·4	5681	56·2	13640	27·6	26497	49·4	46332	87 50·1	64759	2
59	25·6	1379	53·5	5782	18 0·5	13809	37·3	26765	41 16·4	46723	88 55·0	64784	1
60	26·5	1427	55·6	5883	4·9	13980	47·1	27034	44·0	47115	90 0·0	64791	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	13°15-0	0	13°42-0	1424	15°12-6	5870	18°25-1	13940	25°13-0	26925	42°17-7	46777	60
1	15-0	0	42-9	1472	14-9	5972	29-6	14111	23-1	27195	45-9	47165	59
2	15-0	2	43-9	1521	17-1	6076	34-2	14284	33-4	27466	43 14-5	47553	58
3	15-1	4	44-9	1571	19-3	6180	38-8	14457	43-8	27740	43-7	47942	57
4	15-1	6	45-8	1622	21-6	6286	43-5	14633	54-3	28015	44 13-5	48332	56
5	15-2	10	46-8	1674	24-0	6392	48-3	14809	26 5-0	28293	43-9	48722	55
6	13°15-3	14	13°47-9	1726	15°26-3	6499	18°53-1	14988	26°15-9	28573	45°14-8	49114	54
7	15-4	19	48-9	1780	28-7	6608	57-9	15167	27-0	28855	46-4	49505	53
8	15-5	25	50-0	1834	31-1	6717	19 2-9	15348	38-2	29138	46 18-5	49896	52
9	15-6	32	51-0	1889	33-5	6828	7-9	15530	49-6	29424	51-3	50288	51
10	15-7	39	52-1	1945	36-0	6939	12-9	15714	27 1-2	29712	47 24-7	50680	50
11	13°15-9	47	13°53-2	2002	15°38-5	7051	19°18-0	15899	27°12-9	30002	47°58-7	51071	49
12	16-1	56	54-4	2059	41-0	7165	23-2	16086	24-8	30294	48 33-4	51461	48
13	16-2	66	55-5	2118	43-5	7280	28-5	16273	37-0	30588	49 8-7	51853	47
14	16-4	77	56-7	2177	46-1	7395	33-8	16463	49-3	30884	44-8	52242	46
15	16-6	88	57-9	2237	48-7	7512	39-2	16654	28 1-8	31183	50 21-5	52630	45
16	13°16-9	100	13°59-1	2298	15°51-4	7630	19°44-6	16846	28°14-5	31483	50°58-9	53017	44
17	17-1	113	14 0-3	2360	54-0	7749	50-1	17040	27-5	31785	51 37-0	53403	43
18	17-4	127	1-5	2423	56-7	7868	55-7	17236	40-6	32090	52 15-8	53787	42
19	17-6	142	2-8	2486	59-5	7989	20 1-4	17432	53-9	32397	55-3	54169	41
20	17-9	157	4-1	2551	16 2-3	8111	7-1	17631	29 7-5	32706	53 35-6	54547	40
21	13°18-2	173	14° 5-3	2616	16° 5-1	8234	20°13-0	17831	29°21-3	33018	54°16-6	54925	39
22	18-5	190	6-7	2682	7-9	8359	18-8	18032	35-3	33331	58-3	55298	38
23	18-9	208	8-0	2749	10-8	8484	24-8	18235	49-6	33647	55 40-8	55672	37
24	19-2	226	9-4	2817	13-7	8610	30-8	18439	30 4-0	33964	56 24-1	56040	36
25	19-6	245	10-7	2886	16-6	8738	37-0	18645	18-8	34284	57 8-1	56404	35
26	13°20-0	265	14°12-1	2956	16°19-6	8866	20°43-2	18853	30°33-8	34606	57°53-0	56765	34
27	20-4	286	13-5	3026	22-6	8996	49-4	19062	49-0	34930	58 38-5	57121	33
28	20-8	308	15-0	3098	25-7	9127	55-8	19273	31 4-5	35256	59 24-9	57473	32
29	21-2	330	16-4	3170	28-8	9259	21 2-3	19486	20-2	35585	60 12-0	57819	31
30	21-6	353	17-9	3244	31-9	9392	8-8	19700	36-3	35916	61 0-0	58161	30
31	13°22-1	377	14°19-4	3318	16°35-0	9526	21°15-4	19915	31°52-6	36249	61°48-7	58495	29
32	22-5	402	20-9	3393	38-2	9661	22-1	20132	32 9-1	36584	62 38-1	58825	28
33	23-0	428	22-5	3469	41-4	9798	28-9	20350	26-0	36921	63 28-4	59147	27
34	23-5	454	24-0	3546	44-7	9935	35-8	20572	43-2	37261	64 19-4	59463	26
35	24-0	481	25-6	3623	48-0	10074	42-8	20794	33 0-7	37602	65 11-2	59773	25
36	13°24-6	509	14°27-2	3702	16°51-4	10214	21°49-9	21018	33°18-4	37946	66° 3-8	60072	24
37	25-1	538	28-8	3782	54-8	10355	57-0	21244	36-5	38292	57-1	60365	23
38	25-7	568	30-5	3862	58-2	10498	22 4-3	21471	54-9	38640	67 51-1	60651	22
39	26-2	598	32-2	3944	17 1-7	10641	11-7	21700	34 13-7	38990	68 45-9	60925	21
40	26-8	629	33-8	4026	5-2	10786	19-2	21931	32-8	39342	69 41-3	61191	20
41	13°27-4	661	14°35-6	4109	17° 8-7	10932	22°26-7	22163	34°52-2	39696	70°37-5	61447	19
42	28-0	694	37-3	4193	12-3	11079	34-4	22397	35 12-0	40053	71 34-3	61692	18
43	28-7	728	39-1	4278	16-0	11227	42-2	22633	32-1	40411	72 31-8	61927	17
44	29-3	762	40-8	4364	19-7	11377	50-1	22871	52-6	40771	73 29-9	62152	16
45	30-0	798	42-6	4451	23-4	11527	58-1	23111	36 13-5	41134	74 28-6	62365	15
46	13°30-7	834	14°44-5	4539	17°27-2	11679	23° 6-2	23352	36°34-7	41498	75°27-9	62565	14
47	31-4	870	46-3	4628	31-0	11833	14-5	23595	56-4	41864	76 27-8	62755	13
48	32-1	908	48-2	4718	34-9	11987	22-8	23840	37 18-4	42232	77 28-1	62931	12
49	32-8	947	50-1	4809	38-8	12143	31-3	24087	40-9	42602	78 29-0	63096	11
50	33-6	986	52-0	4900	42-7	12300	39-9	24335	38 3-8	42974	79 30-3	63247	10
51	13°34-4	1026	14°54-0	4993	17°46-7	12458	23°48-6	24586	38°27-1	43347	80°32-0	63384	9
52	35-1	1067	55-9	5086	50-8	12617	57-5	24838	50-8	43722	81 34-2	63506	8
53	35-9	1109	57-9	5180	54-9	12778	24 6-4	25092	39 15-0	44099	82 36-6	63616	7
54	36-8	1151	15 0-0	5276	59-1	12940	15-5	25348	39-7	44477	83 39-4	63711	6
55	37-6	1195	2-0	5373	18 3-3	13103	24-8	25606	40 4-8	44858	84 42-4	63793	5
56	13°38-4	1239	15° 4-1	5470	18° 7-5	13268	24°34-2	25866	40°30-4	45239	85°45-7	63860	4
57	39-3	1284	6-2	5569	11-8	13434	43-7	26128	56-5	45622	86 49-1	63911	3
58	40-2	1330	8-3	5668	16-2	13601	53-3	26392	41 23-2	46006	87 52-7	63949	2
59	41-1	1376	10-5	5769	20-6	13770	25 3-1	26658	50-2	46391	88 56-3	63971	1
60	42-0	1424	12-6	5870	25-1	13940	13-0	26925	42 17-7	46777	90 0-0	63978	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	13°30'0	0	13°57'5	1421	15°29'7	5856	18°45'2	13900	25°38'9	26814	42°50'9	46436	60
1	30'0	0	58'4	1469	31'9	5958	49'8	14070	49'1	27083	43 19'1	46818	59
2	30'0	2	59'4	1518	34'2	6061	54'5	14242	59'5	27352	47'8	47200	58
3	30'1	4	14 0'4	1568	36'5	6165	59'2	14415	26 10'0	27624	44 17'1	47581	57
4	30'1	6	1'4	1618	38'8	6270	19 3'9	14589	20'7	27898	46'9	47962	56
5	30'2	10	2'4	1670	41'2	6376	8'8	14766	31'5	28173	45 17'2	48346	55
6	13°30'3	14	14° 3'4	1723	15°43'5	6484	19°13'6	14943	26°42'5	28450	45°48'2	48729	54
7	30'4	19	4'5	1776	46'0	6592	18'6	15122	53'7	28730	46 19'7	49114	53
8	30'5	25	5'6	1830	48'4	6701	23'6	15302	27 5'1	29012	51'8	49500	52
9	30'6	32	6'7	1885	50'9	6811	28'7	15484	16'6	29295	47 24'5	49881	51
10	30'7	39	7'8	1940	53'4	6921	33'8	15666	28'3	29580	57'9	50264	50
11	13°30'9	47	14° 8'9	1997	15°55'9	7034	19°39'0	15850	27°40'2	29868	48°31'8	50648	49
12	31'1	56	10'0	2055	58'5	7148	44'3	16036	52'2	30158	49 6'4	51029	48
13	31'3	66	11'2	2113	16 1'1	7262	49'6	16224	28 4'5	30450	41'7	51411	47
14	31'5	77	12'4	2172	3'7	7377	55'0	16413	17'0	30744	50 17'6	51791	46
15	31'7	88	13'6	2232	6'3	7493	20 0'4	16602	29'6	31039	54'1	52171	45
16	13°31'9	100	14°14'8	2293	16° 9'0	7610	20° 6'0	16793	28°42'5	31336	51°31'4	52548	44
17	32'2	113	16'1	2355	11'7	7729	11'6	16987	55'5	31636	52 9'3	52926	43
18	32'4	126	17'3	2418	14'5	7849	17'3	17181	29 8'8	31939	47'9	53304	42
19	32'7	141	18'6	2481	17'3	7969	23'0	17377	22'3	32243	53 27'3	53674	41
20	33'0	157	19'9	2545	20'1	8091	28'8	17574	36'0	32548	54 7'3	54044	40
21	13°33'3	173	14°21'2	2610	16°22'9	8214	20°34'7	17773	29°49'9	32858	54°48'1	54411	39
22	33'6	190	22'6	2677	25'8	8337	40'7	17974	30 4'1	33167	55 29'6	54777	38
23	33'9	207	23'9	2743	28'7	8462	46'8	18176	18'5	33480	56 11'8	55138	37
24	34'3	225	25'3	2811	31'7	8588	52'9	18379	33'1	33796	54'7	55497	36
25	34'7	245	26'7	2880	34'7	8715	59'1	18584	48'0	34110	57 38'4	55851	35
26	13°35'0	264	14°28'1	2950	16°37'7	8844	21° 5'4	18791	31° 3'1	34430	58°22'8	56200	34
27	35'4	284	29'6	3020	40'8	8973	11'7	18999	18'4	34751	59 8'0	56549	33
28	35'9	307	31'0	3091	43'9	9104	18'2	19208	34'1	35076	54'0	56888	32
29	36'3	329	32'5	3163	47'0	9235	24'7	19420	50'0	35399	60 40'6	57227	31
30	36'7	353	34'0	3236	50'2	9367	31'4	19634	32 6'1	35725	61 28'1	57557	30
31	13°37'2	377	14°35'5	3310	16°53'4	9501	21°38'1	19848	32°22'6	36055	62°16'3	57884	29
32	37'7	402	37'1	3385	56'6	9636	44'9	20064	39'3	36387	63 5'2	58204	28
33	38'2	427	38'6	3461	59'9	9772	51'8	20282	56'3	36721	54'9	58516	27
34	38'7	454	40'2	3538	17 3'3	9911	58'8	20501	33 13'6	37058	64 45'3	58824	26
35	39'2	480	41'8	3615	6'6	10048	22 5'9	20722	31'2	37394	65 36'5	59121	25
36	13°39'7	508	14°43'5	3694	17°10'0	10188	22°13'0	20945	33°49'1	37734	66°28'3	59414	24
37	40'3	537	45'1	3773	13'5	10328	20'3	21169	34 7'4	38075	67 20'9	59695	23
38	40'8	566	46'8	3853	17'0	10470	27'7	21394	25'9	38419	68 14'2	59969	22
39	41'4	597	48'5	3934	20'5	10613	35'2	21622	44'8	38765	69 8'2	60237	21
40	42'0	629	50'1	4017	24'1	10757	42'7	21851	35 4'0	39114	70 2'9	60493	20
41	13°42'6	660	14°51'9	4100	17°27'7	10902	22°50'4	22083	35°23'6	39463	70°58'2	60740	19
42	43'3	693	53'7	4184	31'3	11049	58'2	22316	43'5	39814	71 54'1	60979	18
43	43'9	726	55'5	4268	35'0	11197	23 6'1	22551	36 3'7	40168	72 50'7	61205	17
44	44'6	760	57'3	4354	38'8	11346	14'1	22787	24'3	40524	73 47'9	61420	16
45	45'3	796	59'1	4441	42'6	11496	22'2	23025	45'3	40881	74 45'7	61628	15
46	13°46'0	832	15° 1'0	4529	17°46'4	11647	23°30'5	23265	37° 6'7	41240	75°44'0	61821	14
47	46'7	869	2'9	4617	50'3	11800	38'8	23507	28'5	41601	76 42'8	62002	13
48	47'4	906	4'8	4707	54'2	11953	47'3	23751	50'6	41964	77 42'1	62173	12
49	48'2	945	6'7	4797	58'2	12109	55'9	23995	38 13'2	42329	78 41'9	62330	11
50	48'9	984	8'7	4888	18 2'2	12265	24 4'6	24242	36'2	42696	79 42'1	62477	10
51	13°49'7	1024	15°10'7	4981	18° 6'3	12423	24°13'4	24491	38°59'6	43063	80°42'8	62607	9
52	50'5	1064	12'7	5075	10'4	12582	22'4	24742	39 23'5	43432	81 43'7	62727	8
53	51'3	1106	14'7	5169	14'6	12742	31'5	24995	47'8	43804	82 45'0	62835	7
54	52'1	1149	16'8	5264	18'8	12903	40'7	25250	40 12'5	44175	83 46'6	62924	6
55	53'0	1192	18'9	5360	23'1	13066	50'0	25505	37'7	44550	84 48'5	63002	5
56	13°53'8	1236	15°21'0	5458	18°27'4	13230	24°59'5	25764	41° 3'3	44924	85°50'5	63066	4
57	54'7	1281	23'1	5556	31'8	13395	25 9'1	26024	29'5	45301	86 52'7	63116	3
58	55'6	1327	25'3	5654	36'2	13563	18'9	26286	56'1	45679	87 55'1	63153	2
59	56'5	1374	27'4	5755	40'7	13731	28'8	26549	42 23'3	46057	88 57'5	63173	1
60	57'5	1421	29'7	5856	45'2	13900	38'9	26814	50'9	46436	90 0'0	63181	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	13°45·0	0	14°12·9	1418	15°46·7	5842	19° 5·3	13858	26° 4·6	26703	43°23·6	46095	60
1	45·0	0	13·9	1466	48·9	5944	10·0	14028	15·0	26969	51·8	46469	59
2	45·0	2	14·9	1515	51·3	6046	14·7	14199	25·4	27237	44 20·7	46844	58
3	45·1	4	15·9	1565	53·6	6150	19·5	14372	36·1	27506	49·8	47219	57
4	45·1	6	16·9	1615	56·0	6255	24·3	14546	46·9	27778	45 19·6	47595	56
5	45·2	10	18·0	1667	58·4	6361	29·2	14721	57·9	28051	50·0	47970	55
6	13°45·3	14	14°19·0	1719	16° 0·8	6468	19°34·2	14898	27° 9·0	28326	46°20·9	48347	54
7	45·4	19	20·1	1772	3·2	6575	39·2	15076	20·3	28604	52·4	48722	53
8	45·5	25	21·2	1826	5·7	6684	44·3	15255	31·8	28883	47 24·5	49099	52
9	45·6	32	22·3	1881	8·2	6794	49·4	15436	43·4	29164	57·1	49474	51
10	45·8	39	23·4	1936	10·8	6905	54·6	15618	55·3	29448	48 30·4	49850	50
11	13°45·9	47	14°24·6	1993	16°13·3	7017	19°59·9	15801	28° 7·3	29732	49° 4·3	50225	49
12	46·1	56	25·7	2050	15·9	7130	20 5·2	15986	19·5	30020	38·8	50599	48
13	46·3	66	26·9	2109	18·6	7244	10·6	16172	31·9	30309	50 13·9	50972	47
14	46·5	77	28·1	2167	21·2	7358	16·1	16360	44·4	30600	49·7	51344	46
15	46·7	88	29·3	2227	23·9	7473	21·7	16550	57·2	30894	51 26·1	51715	45
16	13°46·9	100	14°30·6	2288	16°26·7	7591	20°27·3	16740	29°10·2	31189	52° 3·2	52085	44
17	47·2	113	31·8	2350	29·4	7710	33·0	16932	23·4	31486	41·0	52452	43
18	47·5	126	33·1	2412	32·2	7829	38·7	17126	36·8	31785	53 19·4	52818	42
19	47·7	141	34·4	2475	35·1	7949	44·6	17321	50·4	32086	58·5	53182	41
20	48·0	156	35·8	2540	37·9	8070	50·5	17517	30 4·3	32390	54 38·3	53543	40
21	13°48·3	172	14°37·1	2605	16°40·8	8193	20°56·4	17715	30°18·3	32695	55°18·8	53902	39
22	48·7	189	38·5	2670	43·8	8316	21 2·5	17915	32·6	33003	56 0·0	54257	38
23	49·0	207	39·8	2737	46·7	8441	8·6	18116	47·1	33312	41·9	54610	37
24	49·4	225	41·2	2805	49·7	8566	14·9	18318	31 1·9	33624	57 24·6	54959	36
25	49·7	244	42·7	2873	52·8	8693	21·2	18522	16·9	33937	58 7·9	55304	35
26	13°50·1	264	14°44·1	2943	16°55·8	8820	21°27·5	18728	31°32·2	34253	58°52·0	55644	34
27	50·5	285	45·6	3013	58·9	8949	34·0	18935	47·7	34570	59 36·7	55981	33
28	51·0	306	47·0	3084	17 2·1	9079	40·5	19144	32 3·4	34890	60 22·2	56314	32
29	51·4	329	48·6	3156	5·3	9210	47·2	19354	19·5	35211	61 8·5	56640	31
30	51·8	352	50·1	3229	8·5	9343	53·9	19566	35·8	35535	55·4	56962	30
31	13°52·3	376	14°51·6	3303	17°11·8	9476	22° 0·7	19779	32°52·3	35861	62°43·1	57279	29
32	52·8	401	53·2	3378	15·1	9611	7·6	19994	33 9·2	36189	63 31·5	57589	28
33	53·3	426	54·8	3453	18·4	9746	14·6	20211	26·3	36519	64 20·6	57892	27
34	53·8	452	56·4	3529	21·8	9883	21·7	20429	43·8	36850	65 10·4	58188	26
35	54·3	479	58·0	3607	25·2	10021	28·9	20649	34 1·5	37184	66 0·9	58477	25
36	13°54·9	507	14°59·7	3685	17°28·7	10160	22°36·1	20870	34°19·5	37520	66°52·1	58759	24
37	55·4	536	15 1·4	3764	32·2	10300	43·5	21093	37·9	37857	67 44·0	59034	23
38	56·0	565	3·1	3844	35·7	10441	51·0	21318	56·6	38197	68 36·6	59300	22
39	56·6	596	4·8	3925	39·3	10584	58·6	21545	35 15·6	38538	69 29·8	59558	21
40	57·2	627	6·6	4007	42·9	10728	23 6·2	21773	34·9	38882	70 23·7	59806	20
41	13°57·9	659	15° 8·3	4090	17°46·6	10873	23°14·0	22002	35°54·6	39227	71°18·2	60045	19
42	58·5	691	10·1	4174	50·3	11019	21·9	22234	36 14·6	39574	72 13·3	60275	18
43	59·2	725	11·9	4259	54·0	11165	29·9	22467	35·0	39923	73 9·0	60494	17
44	59·8	759	13·8	4344	57·8	11314	38·0	22702	55·7	40274	74 5·3	60703	16
45	14 0·5	794	15·7	4431	18 1·7	11464	46·3	22939	37 16·8	40626	75 2·1	60902	15
46	14° 1·2	830	15°17·6	4518	18° 5·6	11615	23°54·6	23177	37°38·3	40981	75°59·5	61089	14
47	2·0	867	19·5	4606	9·5	11767	24 3·0	23418	38 0·2	41337	76 57·3	61264	13
48	2·7	904	21·4	4696	13·5	11920	11·6	23660	22·5	41694	77 55·7	61429	12
49	3·5	943	23·4	4786	17·6	12075	20·3	23903	45·1	42054	78 54·4	61581	11
50	4·2	982	25·4	4877	21·6	12231	29·1	24148	39 8·2	42415	79 53·6	61722	10
51	14° 5·0	1022	15°27·4	4969	18°25·8	12388	24°38·1	24396	39°31·7	42777	80°53·1	61848	9
52	5·8	1062	29·4	5062	30·0	12546	47·2	24645	55·6	43140	81 53·0	61963	8
53	6·7	1104	31·5	5157	34·2	12706	56·4	24895	40 20·0	43506	82 53·2	62065	7
54	7·5	1146	33·6	5252	38·5	12866	25 5·7	25148	44·8	43873	83 53·6	62152	6
55	8·4	1189	35·7	5347	42·8	13028	15·2	25403	41 10·1	44240	84 54·3	62227	5
56	14° 9·3	1233	15°37·8	5444	18°47·2	13192	25°24·8	25659	41°35·8	44609	85°55·2	62290	4
57	10·1	1278	40·0	5541	51·7	13356	34·5	25917	42 2·0	44979	86 56·3	62337	3
58	11·0	1324	42·2	5641	56·1	13522	44·4	26177	28·7	45351	87 57·5	62373	2
59	12·0	1370	44·4	5741	19 0·7	13690	54·4	26439	55·9	45723	88 58·7	62392	1
60	12·9	1418	46·7	5842	5·3	13858	26 4·6	26703	43 23·6	46095	90 0·0	62400	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	14° 0-0	0	14°28-4	1415	16° 3-7	5827	19°25-4	13816	26°30-2	26590	43°55-8	45754	60
1	0-0	0	29-4	1463	6-0	5929	30-1	13986	40-7	26854	44 24-0	46122	59
2	0-0	2	30-4	1511	8-3	6032	34-9	14156	51-3	27119	52-8	46491	58
3	0-1	4	31-4	1561	10-7	6135	39-7	14328	27 2-0	27387	45 22-0	46857	57
4	0-1	6	32-4	1611	13-1	6240	44-6	14502	13-0	27656	51-8	47225	56
5	0-2	10	33-5	1663	15-5	6345	49-6	14676	24-0	27928	46 22-2	47595	55
6	14° 0-3	14	14°34-6	1715	16°18-0	6452	19°54-6	14851	27°35-3	28201	46°53-1	47963	54
7	0-4	19	35-7	1768	20-5	6559	59-7	15029	46-7	28476	47 24-5	48332	53
8	0-5	25	36-8	1822	23-0	6668	20 4-9	15208	58-3	28753	56-5	48699	52
9	0-6	32	37-9	1877	25-6	6777	10-1	15387	28 10-1	29032	48 29-1	49068	51
10	0-8	39	39-0	1932	28-1	6887	15-4	15568	22-0	29314	49 2-3	49435	50
11	14° 0-9	47	14°40-2	1989	16°30-8	6999	20°20-8	15751	28°34-2	29596	49°36-1	49803	49
12	1-1	56	41-4	2046	33-4	7112	26-2	15936	46-5	29881	50 10-5	50171	48
13	1-3	66	42-6	2104	36-1	7225	31-7	16121	59-0	30168	45-6	50534	47
14	1-5	77	43-8	2163	38-8	7339	37-2	16308	29 11-7	30457	51 21-2	50897	46
15	1-7	87	45-1	2222	41-5	7455	42-8	16496	24-7	30747	57-5	51261	45
16	14° 2-0	100	14°46-3	2283	16°44-3	7572	20°48-5	16686	29°37-8	31040	52°34-4	51621	44
17	2-2	113	47-6	2344	47-1	7689	54-3	16877	51-1	31334	53 12-0	51981	43
18	2-5	126	48-9	2407	49-9	7808	21 0-1	17070	30 4-6	31631	50-2	52338	42
19	2-8	141	50-2	2470	52-8	7928	6-0	17264	18-4	31929	54 28-9	52693	41
20	3-1	156	51-6	2534	55-7	8049	12-0	17459	32-3	32229	55 8-6	53044	40
21	14° 3-4	172	14°53-0	2599	16°58-7	8171	21°18-1	17656	30°46-5	32532	55°48-9	53394	39
22	3-7	188	54-3	2665	17 1-7	8294	24-2	17855	31 0-9	32837	56 29-8	53742	38
23	4-1	206	55-7	2731	4-7	8418	30-5	18055	15-6	33143	57 11-4	54086	37
24	4-4	224	57-2	2799	7-7	8544	36-8	18257	30-5	33450	53-7	54424	36
25	4-8	244	58-6	2867	10-8	8670	43-2	18459	45-6	33761	58 36-7	54761	35
26	14° 5-2	264	15° 0-1	2936	17°13-9	8797	21°49-6	18664	32° 1-0	34073	59°20-4	55095	34
27	5-6	284	1-6	3006	17-1	8926	56-2	18870	16-6	34388	60 4-7	55420	33
28	6-1	306	3-1	3077	20-3	9055	22 2-8	19078	32-5	34704	49-8	55743	32
29	6-5	328	4-6	3149	23-5	9186	9-5	19287	48-7	35023	61 35-6	56061	31
30	7-0	351	6-2	3221	26-8	9318	16-3	19498	33 5-1	35342	62 22-0	56374	30
31	14° 7-4	375	15° 7-7	3295	17°30-1	9451	22°23-2	19710	33°21-8	35665	63° 9-2	56680	29
32	7-9	400	9-3	3370	33-4	9584	30-2	19923	38-8	35990	57-1	56978	28
33	8-4	425	10-9	3445	36-8	9720	37-3	20139	56-1	36315	64 45-6	57275	27
34	9-0	452	12-6	3521	40-3	9856	44-5	20356	34 13-6	36644	65 34-8	57562	26
35	9-5	479	14-2	3599	43-7	9993	51-8	20575	31-5	36973	66 24-7	57843	25
36	14°10-1	506	15°15-9	3677	17°47-3	10132	22°59-1	20795	34°49-7	37305	67°15-3	58115	24
37	10-6	535	17-6	3756	50-8	10272	23 6-6	21017	35 8-1	37638	68 6-5	58381	23
38	11-2	564	19-4	3836	54-4	10412	14-2	21240	26-9	37973	58-3	58639	22
39	11-8	595	21-1	3916	58-0	10555	21-9	21465	46-0	38311	69 50-6	58888	21
40	12-4	625	22-9	3998	18 1-7	10698	29-6	21692	36 5-5	38649	70 43-8	59127	20
41	14°13-1	657	15°24-7	4081	18° 5-5	10842	23°37-5	21921	36°25-3	38991	71°37-6	59360	19
42	13-7	690	26-5	4164	9-2	10987	45-5	22151	45-4	39334	72 31-9	59582	18
43	14-4	723	28-4	4248	13-0	11134	53-6	22383	37 5-9	39677	73 26-8	59794	17
44	15-1	757	30-2	4334	16-9	11282	24 1-8	22616	26-7	40023	74 22-2	59994	16
45	15-8	792	32-1	4420	20-8	11431	10-2	22851	48-0	40372	75 18-1	60188	15
46	14°16-5	829	15°34-1	4508	18°24-8	11582	24°18-6	23089	38° 9-6	40721	76°14-5	60370	14
47	17-3	865	36-0	4595	28-8	11733	27-2	23327	31-5	41072	77 11-4	60537	13
48	18-0	902	38-0	4684	32-8	11886	35-9	23567	53-9	41424	78 8-7	60696	12
49	18-8	941	40-0	4774	36-9	12040	44-7	23809	39 16-6	41778	79 6-5	60844	11
50	19-6	979	42-0	4865	41-0	12196	53-6	24053	39-8	42134	80 4-6	60979	10
51	14°20-4	1019	15°44-0	4957	18°45-2	12352	25° 2-6	24299	40° 3-4	42490	81° 3-1	61101	9
52	21-2	1060	46-1	5050	49-5	12510	11-8	24546	27-4	42848	82 1-9	61209	8
53	22-0	1101	48-2	5144	53-8	12668	21-1	24795	51-8	43208	83 1-0	61309	7
54	22-9	1143	50-3	5239	58-1	12828	30-6	25046	41 16-7	43570	84 0-4	61395	6
55	23-8	1187	52-5	5334	19 2-5	12990	40-2	25299	42-1	43932	85 0-0	61467	5
56	14°24-7	1231	15°54-7	5431	19° 7-0	13153	25°49-9	25554	42° 7-9	44295	85°59-8	61526	4
57	25-6	1276	56-9	5529	11-5	13317	59-8	25810	34-1	44658	86 59-7	61572	3
58	26-5	1321	59-1	5627	16-1	13482	26 9-8	26068	43 0-9	45022	87 59-7	61606	2
59	27-4	1367	16 1-4	5727	20-7	13648	19-9	26329	28-1	45388	88 59-8	61626	1
60	28-4	1415	3-7	5827	25-4	13816	30-2	26590	55-8	45754	90 0-0	61632	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	14°15'0	0	14°43'9	1411	16°20'6	5813	19°45'4	13774	26°55'7	26476	44°27'5	45413	60
1	15'0	0	44'9	1459	23'0	5914	50'2	13943	27 6'2	26738	55'7	45774	59
2	15'0	2	45'9	1508	25'4	6016	55'1	14112	16'9	27002	45 24'5	46135	58
3	15'1	4	46'9	1558	27'8	6119	20 0'0	14284	27'8	27267	53'7	46496	57
4	15'1	6	48'0	1608	30'2	6223	4'9	14456	38'9	27535	46 23'5	46857	56
5	15'2	10	49'0	1659	32'7	6329	10'0	14630	50'1	27804	53'8	47219	55
6	14°15'3	14	14°50'1	1711	16°35'2	6435	20°15'1	14805	28° 1'4	28075	47°24'7	47581	54
7	15'4	19	51'2	1764	37'7	6542	20'3	14981	13'0	28348	56'1	47942	53
8	15'5	25	52'4	1818	40'3	6650	25'5	15159	24'7	28623	48 28'0	48303	52
9	15'6	31	53'5	1872	42'9	6759	30'8	15338	36'6	28899	49 0'6	48663	51
10	15'8	39	54'7	1928	45'5	6870	36'1	15519	48'7	29178	33'7	49024	50
11	14°15'9	47	14°55'9	1984	16°48'2	6981	20°41'6	15700	29° 0'9	29458	50° 7'4	49384	49
12	16'1	56	57'1	2041	50'8	7093	47'1	15884	13'4	29740	41'7	49741	48
13	16'3	66	58'3	2099	53'6	7206	52'6	16068	26'0	30024	51 16'6	50099	47
14	16'5	76	59'5	2158	56'3	7320	58'2	16254	38'9	30311	52'1	50454	46
15	16'8	87	15 0'8	2218	59'1	7436	21 3'9	16442	51'9	30599	52 28'2	50808	45
16	14°17'0	99	15° 2'1	2278	17° 1'9	7552	21° 9'7	16631	30° 5'1	30889	53° 4'9	51161	44
17	17'3	112	3'4	2339	4'8	7669	15'6	16821	18'6	31181	42'3	51511	43
18	17'5	126	4'7	2401	7'7	7788	21'5	17013	32'2	31474	54 20'3	51860	42
19	17'8	140	6'1	2464	10'6	7908	27'5	17206	46'1	31770	59'0	52207	41
20	18'1	156	7'4	2528	13'5	8028	33'5	17401	31 0'2	32068	55 38'3	52551	40
21	14°18'5	171	15° 8'8	2593	17°16'5	8149	21°39'7	17597	31°14'5	32367	56°18'2	52892	39
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23	19'1	206	11'6	2725	22'6	8396	52'2	17993	43'8	32972	57 40'2	53564	37
24	19'5	224	13'1	2792	25'7	8521	58'6	18194	58'8	33277	58 22'1	53894	36
25	19'9	243	14'6	2860	28'8	8646	22 5'1	18396	32 14'1	33584	59 4'7	54222	35
26	14°20'3	263	15°16'1	2929	17°32'0	8773	22°11'6	18599	32°29'6	33894	59°48'0	54545	34
27	20'7	284	17'6	2999	35'2	8901	18'3	18804	45'4	34204	60 32'0	54866	33
28	21'2	305	19'1	3070	38'4	9031	25'0	19011	33 1'4	34517	61 16'6	55177	32
29	21'5	327	20'7	3141	41'7	9161	31'8	19219	17'7	34832	62 2'0	55486	31
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	1 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
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9	30'7	31	9'1	1868	17 0'2	6742	51'3	15288	29 3'0	28764	49 31'4	48260	51
10	30'8	39	10'3	1923	2'9	6852	56'8	15468	15'2	29040	50 4'4	48611	50
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48	48'6	898	11'1	4661	11'3	11815	24'0	23380	55'6	40881	78 33'6	59270	12
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60	59'3	1408	37'6	5798	5'3	13731	21'0	26362	58'7	45072	90 0'0	0140	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
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1	45:0	0	15:8	1453	57:0	5883	30:2	13855	56:9	26502	57:6	45078	59
2	45:0	2	16:9	1501	59:5	5985	35:2	14023	28 7:9	26762	46 26:3	45426	58
3	45:1	4	17:9	1550	17 1:9	6088	40:3	14193	19:0	27023	55:5	45774	57
4	45:1	6	19:0	1600	4:5	6191	45:4	14364	30:3	27286	47 25:2	46122	56
5	45:2	10	20:1	1651	7:0	6296	50:6	14536	41:7	27551	55:5	46469	55
6													
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9	45:5	25	23:6	1809	14:8	6615	6:7	15061	17:0	28357	49 29:3	47511	52
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	46:8	87	32:3	2207	34:2	7396	46:0	16332	45:8	30298	53 27:7	49910	45
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19	47:6	125	36:3	2390	43:0	7746	22 4:0	16897	26:9	31158	55 18:6	50913	42
20	47:9	140	37:7	2452	46:0	7864	10:2	17088	41:0	31448	56:8	51244	41
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24	49:3	205	43:4	2711	58:4	8350	35:6	17868	39:6	32626	58 35:6	52534	37
25	49:7	223	44:9	2778	18 1:6	8474	42:1	18066	54:9	32925	59 16:9	52848	36
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44	0:1	718	17:6	4217	9:8	11037	25 4:2	22122	36:6	38933	74 16:7	57757	17
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	9:9	1179	42:9	5294	20 1:5	12871	54:5	24981	43 15:3	42998	85 15:8	59266	5
56													
57	15°10:9	1222	16°45:2	5390	20° 6:2	13032	27° 4:5	25230	43°41:2	43343	86°12:5	59318	4
58	11:8	1267	47:5	5486	10:9	13194	14:7	25481	44 7:5	43688	87 9:2	59360	3
	12:8	1312	49:8	5584	15:6	13357	25:0	25734	34:3	44035	88 6:1	59391	2
59	13:8	1358	52:2	5683	20:4	13522	35:5	25988	45 1:6	44383	89 3:0	59408	1
60	14:8	1405	54:6	5783	25:3	13688	46:2	26244	29:3	44730	90 0:0	59414	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	15° 0·0	0	15° 30·2	1402	17° 11·5	5768	20° 45·2	13644	28° 11·2	26127	45° 59·6	44389	60
1	0·0	0	31·3	1449	14·0	5868	50·2	13810	22·1	26382	46 27·8	44730	59
2	0·0	2	32·4	1497	16·5	5969	55·3	13978	33·2	26640	56·5	45071	58
3	0·1	3	33·4	1547	19·0	6071	21 0·4	14146	44·4	26899	47 25·7	45413	57
4	0·1	6	34·5	1597	21·5	6174	5·6	14317	55·7	27159	55·3	45754	56
5	0·2	10	35·7	1648	24·1	6279	10·8	14488	29 7·3	27423	48 25·5	46095	55
6	15° 0·3	14	15° 36·8	1699	17° 26·7	6384	21° 16·1	14661	29° 19·0	27688	48° 56·2	46436	54
7	0·4	19	38·0	1752	29·4	6490	21·5	14835	30·9	27954	49 27·4	46777	53
8	0·5	25	39·1	1805	32·1	6597	27·0	15010	42·9	28222	59·1	47116	52
9	0·7	31	40·3	1859	34·8	6705	32·5	15187	55·2	28492	50 31·4	47455	51
10	0·8	39	41·6	1914	37·5	6815	38·0	15365	30 7·6	28763	51 4·2	47793	50
11	15° 1·0	47	15° 42·8	1970	17° 40·3	6925	21° 43·7	15544	30° 20·3	29036	51° 37·5	48130	49
12	1·2	56	44·1	2026	43·1	7036	49·4	15725	33·0	29312	52 11·4	48465	48
13	1·4	65	45·4	2084	45·9	7148	55·2	15907	46·0	29588	45·9	48800	47
14	1·6	76	46·7	2143	48·8	7261	22 1·0	16090	59·1	29865	53 20·9	49135	46
15	1·9	87	48·0	2202	51·7	7376	7·0	16275	31 12·5	30146	56·5	49464	45
16	15° 2·1	99	15° 49·3	2261	17° 54·7	7491	22° 13·0	16461	31° 26·1	30429	54° 32·7	49792	44
17	2·4	112	50·7	2322	57·6	7607	19·1	16649	39·9	30712	55 9·5	50120	43
18	2·7	125	52·1	2384	18 0·7	7724	25·2	16838	53·9	30997	46·8	50446	42
19	3·0	139	53·5	2446	3·7	7842	31·4	17028	32 8·1	31285	56 24·7	50767	41
20	3·3	155	54·9	2510	6·8	7961	37·7	17220	22·5	31573	57 3·3	51088	40
21	15° 3·6	170	15° 56·4	2574	18° 9·9	8082	22° 44·1	17413	32° 36·8	31865	57° 42·4	51403	39
22	4·0	187	57·8	2639	13·1	8203	50·6	17608	52·1	32157	58 22·1	51716	38
23	4·3	204	59·3	2705	16·3	8326	57·2	17804	33 7·2	32451	59 2·4	52026	37
24	4·7	223	16 0·8	2771	19·5	8449	23 3·8	18001	22·6	32746	43·4	52330	36
25	5·1	241	2·4	2839	22·8	8574	10·5	18200	38·2	33045	60 24·9	52633	35
26	15° 5·6	262	16° 3·9	2908	18° 26·1	8700	23° 17·3	18400	33° 54·0	33344	61° 7·0	52930	34
27	6·0	282	5·5	2977	29·4	8827	24·2	18602	34 10·1	33645	49·8	53225	33
28	6·5	303	7·1	3047	32·8	8954	31·2	18805	26·5	33948	62 33·2	53514	32
29	6·9	325	8·8	3118	36·3	9083	38·3	19009	43·1	34252	63 17·1	53798	31
30	7·4	348	10·4	3190	39·7	9213	45·3	19216	59·9	34559	64 1·7	54077	30
31	15° 7·9	372	16° 12·1	3263	18° 43·2	9344	23° 52·7	19423	35° 17·1	34866	64° 46·8	54350	29
32	8·4	396	13·8	3337	46·8	9477	24 0·0	19632	34·5	35177	65 32·6	54619	28
33	9·0	421	15·5	3412	50·4	9610	7·5	19843	52·2	35488	66 18·9	54879	27
34	9·5	447	17·2	3487	54·0	9744	15·0	20055	36 10·2	35800	67 5·8	55134	26
35	10·1	474	19·0	3563	57·7	9880	22·6	20269	28·5	36113	53·3	55383	25
36	15° 10·7	502	16° 20·8	3640	19° 1·4	10017	24° 30·4	20483	36° 47·1	36430	68° 41·3	55624	24
37	11·3	530	22·6	3719	5·2	10154	38·2	20700	37 6·0	36747	69 29·9	55860	23
38	11·9	559	24·5	3798	9·0	10293	46·2	20919	25·2	37066	70 19·1	56086	22
39	12·6	589	26·3	3878	12·8	10433	54·2	21139	44·7	37387	71 8·7	56305	21
40	13·2	620	28·2	3958	16·7	10573	25 2·4	21360	38 4·6	37709	58·9	56516	20
41	15° 13·9	651	16° 30·1	4040	19° 20·7	10716	25° 10·7	21583	38° 24·8	38031	72° 49·6	56720	19
42	14·6	684	32·1	4123	24·7	10860	19·0	21808	45·3	38356	73 40·8	56916	18
43	15·3	717	34·0	4206	28·7	11004	27·5	22033	39 6·1	38683	74 32·4	57100	17
44	16·1	750	36·0	4291	32·8	11149	36·1	22261	27·3	39010	75 24·5	57277	16
45	16·8	785	38·0	4376	36·9	11297	44·9	22490	48·9	39340	76 17·0	57446	15
46	15° 17·6	821	16° 40·1	4462	19° 41·1	11445	25° 53·7	22722	40° 10·8	39669	77° 9·9	57602	14
47	18·4	857	42·2	4549	45·4	11594	26 2·7	22954	33·1	40000	78 3·2	57749	13
48	19·2	894	44·2	4638	49·6	11744	11·8	23188	55·7	40333	56·9	57888	12
49	20·0	932	46·4	4727	54·0	11896	21·0	23423	41 18·8	40666	79 50·9	58015	11
50	20·8	970	48·5	4817	58·4	12049	30·3	23661	42·2	41000	80 45·2	58134	10
51	15° 21·7	1010	16° 50·7	4907	20° 2·8	12203	26° 39·8	23900	42° 6·0	41336	81° 39·9	58239	9
52	22·6	1050	52·9	4999	7·3	12357	49·4	24141	30·3	41673	82 34·8	58334	8
53	23·5	1091	55·1	5092	11·8	12514	59·1	24383	54·9	42010	83 29·9	58420	7
54	24·4	1133	57·4	5185	16·4	12672	27 9·0	24627	43 20·0	42347	84 25·2	58493	6
55	25·3	1176	59·7	5280	21·1	12831	19·0	24873	45·5	42685	85 20·7	58557	5
56	15° 26·3	1219	17° 2·0	5376	20° 25·8	12991	27° 29·1	25120	44° 11·4	43026	86° 16·4	58609	4
57	27·2	1264	4·3	5472	30·6	13152	39·4	25369	37·7	43366	87 12·2	58648	3
58	28·2	1309	6·7	5570	35·4	13315	49·9	25621	45 4·5	43707	88 8·1	58676	2
59	29·2	1355	9·1	5668	40·3	13478	28 0·5	25873	31·8	44047	89 4·0	58694	1
60	30·2	1402	11·5	5768	45·2	13644	11·2	26127	59·6	44389	90 0·0	58700	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	15°15.0	0	15°45.7	1398	17°28.5	5752	21° 5.1	13599	28°36.1	26008	46°29.3	44047	60
1	15.0	0	46.8	1445	31.0	5852	10.1	13765	47.1	26261	57.5	44383	59
2	15.0	2	47.8	1494	33.5	5953	15.3	13931	58.3	26517	47 26.2	44718	58
3	15.1	3	48.9	1543	36.0	6055	20.5	14099	29 9.6	26774	55.3	45053	57
4	15.1	6	50.1	1593	38.6	6158	25.7	14269	21.1	27033	48 24.9	45388	56
5	15.2	10	51.2	1643	41.2	6262	31.0	14440	32.7	27294	55.0	45723	55
6	15°15.3	14	15°52.4	1695	17°43.9	6366	21°36.4	14611	29°44.5	27556	49°25.7	46057	54
7	15.4	19	53.5	1747	46.6	6472	41.8	14785	56.5	27820	56.8	46391	53
8	15.5	25	54.7	1800	49.3	6579	47.4	14959	30 8.7	28086	50 28.4	46724	52
9	15.7	31	56.0	1854	52.0	6687	52.9	15135	21.0	28353	51 0.6	47056	51
10	15.8	39	57.2	1909	54.8	6796	58.6	15312	33.5	28622	33.3	47386	50
11	15°16.0	47	15°58.5	1965	17°57.6	6905	22° 4.3	15491	30°46.2	28893	52° 6.5	47716	49
12	16.2	55	59.7	2021	18 0.5	7016	10.1	15671	59.1	29165	40.2	48045	48
13	16.4	65	16 1.0	2079	3.4	7128	15.9	15852	31 12.2	29440	53 14.5	48372	47
14	16.6	75	2.4	2137	6.3	7241	21.9	16034	25.5	29715	49.4	48697	46
15	16.9	87	3.7	2196	9.2	7355	27.9	16218	39.0	29993	54 24.8	49021	45
16	15°17.1	99	16° 5.1	2256	18°12.2	7470	22°33.9	16403	31°52.7	30272	55° 0.8	49343	44
17	17.4	111	6.5	2316	15.2	7585	40.1	16590	32 6.6	30553	37.3	49662	43
18	17.7	125	7.9	2378	18.3	7702	46.3	16778	20.7	30836	56 14.4	49979	42
19	18.0	139	9.3	2440	21.4	7820	52.6	16967	35.0	31120	52.1	50293	41
20	18.3	154	10.7	2503	24.5	7939	59.0	17158	49.6	31406	57 30.3	50605	40
21	15°18.7	170	16°12.2	2567	18°27.7	8059	23° 5.5	17350	33° 4.3	31694	58° 9.2	50913	39
22	19.0	187	13.7	2632	30.9	8180	12.0	17544	19.3	31984	48.6	51219	38
23	19.4	204	15.2	2698	34.1	8302	18.7	17738	34.6	32275	59 28.6	51520	37
24	19.8	222	16.8	2765	37.4	8425	25.4	17935	50.0	32568	60 9.2	51819	36
25	20.2	241	18.3	2832	40.7	8549	32.2	18133	34 5.7	32862	50.4	52113	35
26	15°20.6	261	16°19.9	2900	18°44.1	8675	23°39.1	18332	34°21.7	33158	61°32.1	52404	34
27	21.1	281	21.5	2970	47.5	8801	46.0	18532	37.9	33456	62 14.5	52690	33
28	21.5	302	23.1	3040	50.9	8928	53.1	18734	54.3	33756	57.4	52970	32
29	22.0	324	24.8	3110	54.3	9057	24 0.3	18938	35 11.0	34057	63 40.9	53246	31
30	22.5	347	26.6	3182	57.9	9186	7.5	19143	28.0	34359	64 25.0	53518	30
31	15°23.0	371	16°28.2	3255	19° 1.5	9317	24°14.8	19349	35°45.3	34664	65° 9.7	53783	29
32	23.6	395	29.9	3328	5.1	9449	22.3	19557	36 2.8	34969	54.9	54044	28
33	24.1	420	31.6	3403	8.7	9581	29.8	19767	20.6	35277	66 40.7	54297	27
34	24.7	446	33.4	3478	12.4	9715	37.4	19978	38.7	35586	67 27.0	54545	26
35	25.3	473	35.2	3554	16.1	9850	45.2	20190	57.1	35896	68 13.9	54788	25
36	15°25.9	500	16°37.0	3631	19°19.9	9986	24°53.0	20404	37°15.7	36208	69° 1.4	55021	24
37	26.5	529	38.9	3709	23.7	10123	25 0.9	20619	34.7	36522	49.7	55248	23
38	27.1	558	40.7	3788	27.6	10262	9.0	20836	54.0	36836	70 37.8	55470	22
39	27.8	588	42.6	3868	31.5	10401	17.1	21054	38 13.6	37153	71 26.8	55682	21
40	28.4	618	44.5	3948	35.4	10542	25.4	21275	33.5	37470	72 16.4	55887	20
41	15°29.1	650	16°46.5	4030	19°39.4	10683	25°33.7	21496	38°53.8	37789	73° 6.3	56083	19
42	29.8	682	48.4	4112	43.5	10826	42.2	21719	39 14.4	38110	56.7	56272	18
43	30.6	715	50.4	4195	47.6	10970	50.8	21944	35.3	38432	74 47.6	56451	17
44	31.3	749	52.4	4279	51.6	11115	59.5	22170	56.6	38755	75 38.9	56621	16
45	32.1	783	54.5	4365	55.9	11262	26 8.3	22398	40 18.2	39078	76 30.6	56785	15
46	15°32.8	819	16°56.6	4451	20° 0.2	11409	26°17.2	22627	40°40.2	39404	77°22.7	56938	14
47	33.6	855	58.7	4538	4.4	11558	26.3	22858	41 2.5	39730	78 15.2	57079	13
48	34.5	892	17 0.8	4625	8.8	11708	35.5	23090	25.2	40057	79 8.0	57214	12
49	35.3	930	2.9	4714	13.2	11859	44.8	23325	48.3	40386	80 1.1	57337	11
50	36.1	968	5.1	4804	17.6	12011	54.2	23561	42 11.8	40715	54.6	57451	10
51	15°37.0	1007	17° 7.3	4894	20°22.1	12164	27° 3.8	23798	42°35.7	41046	81°48.3	57554	9
52	37.9	1048	9.6	4986	26.7	12319	13.5	24037	59.9	41377	82 42.3	57647	8
53	38.8	1089	11.8	5078	31.3	12474	23.3	24277	43 24.6	41709	83 36.5	57729	7
54	39.7	1130	14.1	5172	35.9	12631	33.3	24520	49.7	42042	84 30.9	57800	6
55	40.7	1173	16.4	5266	40.6	12790	43.4	24763	44 15.2	42375	85 25.5	57861	5
56	15°41.7	1216	17°18.8	5361	20°45.4	12949	27°53.6	25009	44°41.2	42708	86°20.2	57910	4
57	42.6	1261	21.2	5457	50.2	13110	28 3.7	25256	45 7.5	43042	87 14.9	57949	3
58	43.6	1306	23.6	5555	55.1	13271	14.6	25505	34.3	43377	88 10.0	57977	2
59	44.7	1351	26.0	5653	21 0.1	13435	25.3	25755	46 1.6	43712	89 5.0	57993	1
60	45.7	1398	28.5	5752	5.1	13599	36.1	26008	29.3	44047	90 0.0	57999	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H						
0	15°30:0	0 16° 1:2	1395	17°45:4	5735	21°24:9	13553	29° 0:9	25888	46°58:6	43708	60
1	30:0	0 2:2	1442	47:9	5836	30:0	13719	12:0	26140	47 26:8	44036	59
2	30:0	2 3:3	1490	50:5	5937	35:2	13885	23:2	26393	55:4	44363	58
3	30:1	3 4:4	1539	53:1	6038	40:5	14051	34:7	26648	48 24:5	44693	57
4	30:1	6 5:6	1589	55:7	6141	45:8	14220	46:2	26905	54:0	45024	56
5	30:2	10 6:7	1639	58:4	6244	51:2	14391	58:0	27163	49 24:0	45351	55
6	15°30:3	14 16° 7:9	1691	18° 1:0	6349	21°56:6	14562	30° 9:9	27424	49°54:6	45679	54
7	30:4	19 9:1	1743	3 8	6454	22 2:1	14734	22:0	27686	50 25:6	46006	53
8	30:5	25 10:3	1795	6:5	6561	7:7	14908	34:3	27949	57:2	46332	52
9	30:7	31 11:5	1850	9:3	6668	13:3	15083	46:7	28214	51 29:2	46657	51
10	30:8	38 12:8	1905	12:1	6776	19:1	15260	59:3	28480	52 1:8	46983	50
11	15°31:0	47 16°14:1	1960	18°15:0	6886	22°24:9	15437	31°12:1	28748	52°34:9	47304	49
12	31:2	55 15:4	2016	17:9	6996	30:7	15616	25:1	29019	53 8:5	47626	48
13	31:4	65 16:7	2073	20:8	7108	36:6	15796	38:3	29290	42:6	47945	47
14	31:7	75 18:1	2131	23:7	7220	42:6	15977	51:7	29563	54 17:3	48262	46
15	31:9	86 19:4	2190	26:7	7334	48:7	16160	32 5:3	29838	52:5	48580	45
16	15°32:2	98 16°20:8	2250	18°29:7	7448	22°54:9	16344	32°19:1	30115	55°28:2	48894	44
17	32:4	111 22:2	2310	32:8	7564	23 1:1	16530	33:1	30393	56 4:5	49206	43
18	32:7	124 23:6	2371	35:9	7680	7:4	16717	47:3	30673	41:4	49514	42
19	33:1	139 25:1	2434	39:0	7798	13:8	16906	33 1:7	30955	57 18:8	49823	41
20	33:4	154 26:6	2497	42:2	7916	20:2	17095	16:4	31238	56:8	50129	40
21	15°33:7	170 16°28:1	2561	18°45:4	8036	23°26:8	17286	33°31:3	31523	58°35:4	50428	39
22	34:1	186 29:6	2626	48:7	8156	33:4	17478	46:3	31810	59 14:5	50727	38
23	34:5	203 31:1	2691	52:0	8278	40:1	17673	34 1:7	32098	54:2	51020	37
24	34:9	222 32:7	2757	55:4	8401	46:9	17868	17:2	32388	60 34:4	51310	36
25	35:3	240 34:2	2825	58:7	8524	53:8	18065	33:0	32679	61 15:2	51598	35
26	15°35:7	260 16°35:8	2893	19° 2:1	8649	24° 0:8	18262	34°49:1	32972	61°56:6	51883	34
27	36:2	280 37:5	2962	5:5	8775	7:8	18462	35 5:4	33266	62 38:5	52159	33
28	36:6	302 39:1	3032	9:0	8901	15:0	18663	21:9	33561	63 21:0	52432	32
29	37:1	324 40:8	3102	12:5	9030	22:2	18865	38:7	33860	64 4:1	52701	31
30	37:6	346 42:5	3174	16:1	9159	29:5	19068	55:8	34159	47:7	52962	30
31	15°38:2	370 16°44:2	3247	19°19:7	9289	24°36:9	19274	36°13:2	34460	65°31:9	53223	29
32	38:7	394 46:0	3320	23:3	9421	44:5	19481	38:8	34762	66 16:6	53477	28
33	39:3	419 47:7	3394	27:0	9553	52:1	19690	48:7	35065	67 1:9	53723	27
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	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
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7	0'4	19	40'2	1734	38'1	6417	42'5	14631	12'5	27412	51 21'8	45239	53
8	0'6	24	41'5	1786	40'9	6523	48'3	14803	25'0	27670	53'2	45551	52
9	0'7	31	42'7	1840	43'8	6630	54'0	14976	37'6	27931	52 25'0	45864	51
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	11 H	10 H	9 H	8 H	7 H	6 H	m						

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3	15:1	3	50:9	1527	44:1	5986	40:2	13906	49:0	26263	49:1	43620	57
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5	15:2	10	53:3	1627	49:6	6191	51:3	14239	12:9	26765	48:2	44240	55
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7	15:4	19	55:8	1729	55:2	6399	23 2:7	14578	37:5	27273	49:2	44858	53
8	15:6	24	57:0	1782	58:1	6504	8:5	14749	50:1	27530	52 20:4	45164	52
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51	17° 8-9	992	18°46-9	4813	22°17-2	11922	29°25-4	23163	45°25-5	39298	82°34-1	53665	9
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53	10-9	1072	51-8	4993	27-0	12225	46-0	23621	46 14-5	39901	84 12-4	53809	7
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57	15-0	1241	19 1-9	5365	47-4	12843	29-0	24556	57-2	41106	87 30-6	53990	3
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59	17-2	1331	7-1	5557	58-0	13159	51-3	25032	50-9	41709	89 10-2	54027	1
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	11 H		10 H		9 H		8 H		7 H		6 H		m

m	0 H	1 H	2 H	3 H	4 H	5 H						
0	17° 0'0	0 17°33'8	1373	19°26'7	5637	23°22'9	13271	31°26'6	25146	49°45'0	41673	60
1	0'0	0 35'0	1419	29'4	5735	28'4	13431	38'3	25386	50 12'8	41967	59
2	0'0	2 36'2	1466	32'2	5833	34'0	13592	50'1	25627	41'0	42262	58
3	0'1	3 37'4	1515	35'0	5933	39'6	13755	32 2'1	25869	51 9'7	42556	57
4	0'1	6 38'6	1564	37'8	6033	45'3	13919	14'2	26112	38'7	42850	56
5	0'2	9 39'9	1614	40'7	6135	51'1	14084	26'5	26358	52 8'2	43141	55
6	17° 0'3	14 17°41'1	1664	19°43'6	6238	23°56'9	14250	32°38'9	26605	52°38'2	43432	54
7	0'4	19 42'4	1715	46'5	6341	24 2'8	14417	51'6	26853	53 8'5	43722	53
8	0'6	24 43'7	1768	49'5	6445	8'8	14585	33 4'4	27102	39'3	44012	52
9	0'7	31 45'1	1820	52'5	6550	14'8	14755	17'4	27354	54 10'5	44299	51
10	0'9	38 46'4	1874	55'5	6657	20'9	14927	30'5	27606	42'2	44584	50
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16	17° 2'3	96 17°55'1	2214	20°14'6	7314	24°59'2	15979	34°53'6	29150	58° 1'9	46263	44
17	2'7	109 56'6	2274	17'9	7427	25 5'8	16158	35 8'1	29412	36'8	46535	43
18	3'0	122 58'2	2334	21'2	7541	12'5	16339	22'8	29675	59 12'1	46804	42
19	3'3	137 59'7	2395	24'6	7656	19'3	16522	37'8	29940	48'0	47071	41
20	3'7	152 18 1'3	2457	28'0	7772	26'2	16705	53'0	30206	60 24'3	47335	40
21	17° 4'0	167 18° 3'0	2520	20°31'5	7889	25°33'2	16890	36° 8'3	30473	61° 1'0	47596	39
22	4'4	184 4'6	2583	35'0	8007	40'3	17076	24'0	30742	38'3	47854	38
23	4'9	200 6'3	2648	38'5	8126	47'4	17263	39'8	31012	62 16'0	48106	37
24	5'3	218 8'0	2713	42'1	8246	54'7	17452	55'9	31284	54'1	48356	36
25	5'7	237 9'7	2779	45'7	8367	26 2'0	17642	37 12'2	31556	63 32'8	48603	35
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27	6'7	276 13'2	2914	53'1	8612	16'9	18026	45'5	32104	51'4	49084	33
28	7'2	297 15'0	2982	56'9	8736	24'5	18220	38 2'5	32381	65 31'5	49316	32
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31	17° 8'9	364 18°20'5	3193	21° 8'4	9114	26°47'9	18809	38°55'1	33217	67°34'2	49990	29
32	9'4	388 22'4	3265	12'3	9242	55'9	19009	39 13'2	33499	68 16'0	50205	28
33	10'0	413 24'3	3337	16'3	9372	27 4'0	19209	31'5	33780	58'3	50414	27
34	10'7	438 26'2	3411	20'3	9502	12'2	19411	50'1	34063	69 40'9	50615	26
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37	12'7	519 32'2	3638	32'6	9899	37'4	20025	47'5	34919	51'4	51192	23
38	13'3	548 34'3	3715	36'9	10033	46'0	20232	41 7'3	35206	72 35'6	51369	22
39	14'1	577 36'4	3794	41'1	10169	54'7	20441	27'3	35494	73 20'3	51544	21
40	14'8	607 38'5	3873	45'4	10305	28 3'5	20651	47'6	35782	74 5'3	51708	20
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42	16'3	669 42'8	4033	54'2	10582	21'5	21076	29'2	36364	75 36'4	52022	18
43	17'1	702 44'9	4114	58'7	10722	30'7	21289	50'4	36655	76 22'5	52166	17
44	18'0	735 47'2	4197	22 3'2	10863	40'0	21504	43 12'0	36948	77 8'8	52306	16
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46	17°19'7	804 18°51'7	4364	22°12'3	11148	28°59'0	21940	43°56'1	37533	78°42'5	52556	14
47	20'5	840 54'0	4449	17'0	11292	29 8'7	22160	44 18'7	37827	79 29'7	52672	13
48	21'4	876 56'3	4535	21'7	11437	18'4	22381	41'6	38123	80 17'2	52779	12
49	22'3	913 58'7	4622	26'5	11584	28'4	22604	45 4'9	38417	81 4'9	52878	11
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56	17°29'3	1195 19°16'1	5255	23° 1'6	12641	30°41'6	24202	47°57'8	40489	86°44'0	53336	4
57	30'4	1238 18'7	5349	6'8	12797	52'7	24436	48 24'0	40785	87 32'9	53367	3
58	31'5	1282 21'3	5444	12'1	12953	31 3'8	24671	50'6	41081	88 21'9	53390	2
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	11 H	10 H	9 H	8 H	7 H	6 H	m					

m	0 H		1 H		2 H		3 H		4 H		5 H		
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2	15-0	2	51-6	1463	49-1	5815	53-6	13541	14-1	25495	51 7-1	41914	58
3	15-1	3	52-8	1511	51-9	5915	59-3	13703	26-1	25736	35-7	42203	57
4	15-1	6	54-1	1559	54-8	6015	24 5-1	13866	38-3	25977	52 4-6	42490	56
5	15-3	9	55-4	1609	57-7	6116	10-9	14030	50-7	26220	34-0	42777	55
6	17°15-3	14	17°56-7	1659	20° 0-6	6218	24°16-8	14196	33° 3-2	26465	53° 3-8	43063	54
7	15-5	19	58-0	1711	3-6	6321	22-7	14362	15-9	26711	34-0	43347	53
8	15-6	24	59-4	1763	6-6	6425	28-8	14530	28-8	26958	54 4-7	43630	52
9	15-7	31	18 0-7	1815	9-6	6530	34-9	14699	41-9	27207	35-8	43913	51
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19	18-4	136	15-5	2388	42-1	7631	40-1	16455	36 3-1	29767	60 11-0	46624	41
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23	19-9	200	22-1	2640	56-2	8099	8-4	17193	37 5-4	30828	37-8	47636	37
24	20-4	218	23-8	2705	59-8	8219	15-7	17380	21-5	31096	63 15-7	47880	36
25	20-8	236	25-6	2771	21 3-5	8339	23-1	17569	37-9	31366	53-9	48120	35
26	17°21-3	255	18°27-3	2838	21° 7-2	8461	26°30-6	17759	37°54-5	31636	64°32-7	48357	34
27	21-8	275	29-1	2906	11-0	8583	38-2	17951	38 11-3	31908	65 11-8	48588	33
28	22-3	296	30-9	2974	14-7	8707	45-8	18143	28-4	32181	51-5	48816	32
29	22-8	318	32-8	3043	18-6	8832	53-6	18337	45-8	32455	66 31-5	49039	31
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43	32-4	700	19 1-3	4102	17-3	10685	53-2	21192	43 17-0	36399	76 34-6	51588	17
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60	49-2	1369	43-5	5620	42-4	13221	50-5	25019	50 11-3	41336	90 0-0	52791	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H						
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3	30.1	3 8.3	1506	8.8	5896	19.0	13651	50.0	25602	52 1.3	41851	57
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6	17°30.3	14 18°12.2	1655	20°17.6	6198	24°36.6	14141	33°27.4	26325	53°29.0	42696	54
7	30.5	18 13.5	1706	20.6	6301	42.6	14307	40.2	26568	59.1	42974	53
8	30.6	24 14.9	1758	23.7	6404	48.7	14473	53.1	26812	54 29.6	43251	52
9	30.7	30 16.2	1810	26.8	6509	54.9	14641	34 6.3	27059	55 0.6	43528	51
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13	31.6	64 22.0	2029	39.4	6936	20.3	15326	35 0.7	28058	57 8.6	44615	47
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18	33.0	122 29.7	2320	56.2	7492	53.8	16208	36 13.1	29336	58.4	45928	42
19	33.4	136 31.3	2381	59.6	7606	26 0.7	16388	28.2	29594	60 33.7	46182	41
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21	17°34.2	166 18°34.6	2505	21° 6.7	7838	26°14.8	16752	36°59.0	30116	61°45.6	46680	39
22	34.6	183 36.2	2568	10.3	7955	22.0	16936	37 14.8	30380	62 22.2	46925	38
23	35.0	199 37.9	2632	13.9	8073	29.3	17121	30.8	30644	59.2	47169	37
24	35.4	217 39.7	2697	17.5	8192	36.7	17308	47.0	30909	63 36.7	47409	36
25	35.9	235 41.4	2763	21.3	8312	44.2	17495	38 3.4	31175	64 14.6	47643	35
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27	36.9	275 45.0	2897	28.8	8555	59.4	17875	36.9	31711	65 31.8	48098	33
28	37.4	296 46.9	2965	32.3	8678	27 7.1	18066	54.1	31980	66 11.0	48320	32
29	37.9	317 48.7	3034	36.5	8802	14.9	18259	39 11.5	32252	50.6	48538	31
30	38.5	339 50.6	3104	40.4	8927	22.9	18452	29.1	32525	67 30.7	48751	30
31	17°39.1	362 18°52.5	3175	21°44.4	9053	27°30.9	18648	39°47.0	32798	68°11.2	48960	29
32	39.7	386 54.5	3246	48.4	9180	39.0	18845	40 5.2	33071	52.0	49164	28
33	40.3	411 56.5	3319	52.5	9308	47.3	19043	23.6	33346	69 33.3	49361	27
34	40.9	435 58.4	3393	56.6	9437	55.6	19243	42.3	33622	70 15.0	49553	26
35	41.6	462 19 0.4	3467	22 0.8	9568	28 4.1	19443	41 1.3	33899	57.1	49740	25
36	17°42.3	489 19° 2.5	3542	22° 5.0	9699	28°12.6	19644	41°20.5	34177	71°39.5	49920	24
37	43.0	516 4.6	3617	9.3	9831	21.2	19848	40.0	34455	72 22.3	50098	23
38	43.7	545 6.7	3694	13.5	9964	30.0	20052	59.8	34734	73 5.5	50266	22
39	44.4	574 8.8	3771	17.9	10099	38.9	20258	42 19.9	35015	49.0	50430	21
40	45.2	604 10.9	3850	22.3	10235	47.9	20466	40.3	35297	74 32.9	50587	20
41	17°46.0	635 19°13.2	3929	22°26.7	10371	28°57.0	20674	43° 1.0	35578	75°17.1	50737	19
42	46.8	666 15.3	4009	31.3	10508	29 6.2	20884	22.0	35860	76 1.6	50881	18
43	47.6	698 17.6	4090	35.8	10647	15.5	21095	43.3	36143	46.4	51018	17
44	48.4	731 19.9	4172	40.4	10787	25.0	21307	44 4.9	36428	77 31.5	51150	16
45	49.3	765 22.2	4255	45.1	10927	34.6	21521	26.8	36712	78 16.9	51272	15
46	17°50.2	799 19°24.5	4338	22°49.8	11069	29°44.3	21737	44°49.1	36996	79° 2.5	51389	14
47	51.1	835 26.8	4423	54.6	11212	54.1	21953	45 11.7	37282	48.4	51495	13
48	52.0	871 29.2	4508	59.4	11356	30 4.0	22171	34.6	37568	80 34.5	51597	12
49	52.9	908 31.7	4594	23 4.3	11502	14.1	22390	57.8	37853	81 20.9	51689	11
50	53.9	945 34.1	4681	9.2	11648	24.3	22611	46 21.4	38138	82 7.4	51775	10
51	17°54.8	984 19°36.6	4769	23°14.2	11795	30°34.7	22833	46°45.4	38425	82°54.1	51853	9
52	55.9	1023 39.1	4858	19.3	11944	45.1	23055	47 9.6	38712	83 41.0	51922	8
53	56.9	1063 41.7	4948	24.4	12093	55.8	23281	34.3	38999	84 28.1	51983	7
54	57.9	1104 44.2	5039	29.6	12244	31 6.5	23508	59.3	39285	85 15.2	52038	6
55	59.0	1145 46.8	5130	34.8	12396	17.4	23735	48 24.6	39571	86 2.5	52083	5
56	18° 0.1	1188 19°49.4	5223	23°40.1	12549	31°28.5	23963	48°50.4	39857	86°49.9	52119	4
57	1.2	1231 52.1	5316	45.5	12703	39.7	24193	49 16.5	40144	87 37.4	52148	3
58	2.3	1276 54.8	5411	50.9	12858	51.0	24424	43.0	40430	88 24.9	52170	2
59	3.5	1320 57.6	5506	56.4	13014	32 2.5	24657	50 9.9	40715	89 12.4	52181	1
60	4.7	1365 20 0.3	5602	24 1.9	13173	14.1	24892	37.1	41000	90 0.0	52186	0
	11 H	10 H	9 H	8 H	7 H	6 H	m					

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	17°45·0	0	18°20·1	1361	20°17·1	5584	24°21·4	13122	32°37·7	24762	51° 2·6	40666	60
1	45·0	0	21·3	1407	20·0	5681	27·0	13279	49·5	24996	30·1	40945	59
2	45·0	2	22·5	1454	22·8	5779	32·8	13439	33 1·6	25231	58·1	41224	58
3	45·1	3	23·8	1501	25·7	5877	38·6	13599	13·8	25467	52 26·4	41502	57
4	45·1	6	25·1	1550	28·7	5977	44·4	13760	26·1	25704	55·2	41778	56
5	45·2	9	26·4	1600	31·6	6077	50·4	13922	38·6	25943	53 24·3	42054	55
6	17°45·3	14	18°27·7	1650	20°34·6	6178	24°56·4	14086	33°51·3	26183	53°53·8	42329	54
7	45·5	18	29·0	1701	37·7	6281	25 2·5	14251	34 4·2	26424	54 23·8	42602	53
8	45·6	24	30·4	1753	40·8	6384	8·6	14417	17·3	26667	54·1	42874	52
9	45·8	30	31·8	1805	43·9	6488	14·8	14584	30·5	26911	55 24·9	43145	51
10	46·0	38	33·2	1858	47·0	6593	21·1	14752	43·9	27156	56·1	43413	50
11	17°46·2	45	18°34·7	1912	20°50·2	6699	25°27·5	14922	34°57·5	27403	56°27·7	43681	49
12	46·4	54	36·1	1967	53·4	6806	33·9	15092	35 11·2	27650	59·7	43946	48
13	46·6	63	37·6	2023	56·7	6914	40·5	15264	25·2	27899	57 32·2	44210	47
14	46·9	74	39·1	2079	21 0·0	7023	47·1	15437	39·3	28150	58 5·1	44471	46
15	47·1	84	40·6	2137	3·4	7132	53·8	15611	53·7	28401	38·4	44730	45
16	17°47·4	96	18°42·2	2195	21° 6·7	7243	26° 0·5	15787	36° 8·2	28654	59°12·1	44987	44
17	47·8	108	43·8	2254	10·2	7355	7·4	15964	23·0	28908	46·2	45242	43
18	48·1	122	45·4	2314	13·6	7468	14·3	16141	37·9	29163	60 20·8	45494	42
19	48·4	136	47·0	2374	17·1	7581	21·3	16321	53·1	29420	55·8	45742	41
20	48·8	150	48·7	2436	20·7	7696	28·4	16501	37 8·5	29677	61 31·3	45988	40
21	17°49·2	166	18°50·4	2498	21°24·2	7812	26°35·5	16682	37°24·1	29936	62° 7·1	46231	39
22	49·6	182	52·1	2561	27·9	7928	42·8	16865	39·9	30196	43·4	46470	38
23	50·0	199	53·8	2625	31·5	8046	50·2	17049	55·9	30458	63 20·2	46706	37
24	50·5	216	55·5	2689	35·2	8164	57·6	17235	38 12·2	30720	57·3	46938	36
25	51·0	235	57·3	2755	39·0	8284	27 5·1	17421	28·7	30983	64 34·9	47168	35
26	17°51·5	254	18°59·1	2821	21°42·8	8404	27°12·8	17609	38°45·4	31247	65°12·9	47393	34
27	52·0	274	19 1·0	2888	46·6	8526	20·5	17798	39 2·3	31513	51·3	47613	33
28	52·5	295	2·8	2956	50·5	8648	28·3	17988	19·5	31780	66 30·1	47829	32
29	53·0	316	4·7	3025	54·4	8772	36·2	18180	37·0	32047	67 9·3	48042	31
30	53·6	338	6·6	3095	58·4	8896	44·2	18373	54·7	32316	49·0	48249	30
31	17°54·2	361	19° 8·5	3165	22° 2·4	9022	27°52·3	18567	40°12·6	32586	68°29·0	48452	29
32	54·8	385	10·5	3237	6·5	9149	28 0·5	18762	30·8	32856	69 9·4	48650	28
33	55·4	409	12·5	3309	10·6	9276	8·8	18959	49·3	33127	50·2	48843	27
34	56·1	435	14·5	3382	14·7	9405	17·2	19157	41 8·0	33400	70 31·4	49030	26
35	56·7	461	16·5	3456	18·9	9534	25·7	19356	27·0	33674	71 13·0	49213	25
36	17°57·4	487	19°18·6	3530	22°23·2	9665	28°34·3	19556	41°46·3	33948	71°54·9	49389	24
37	58·1	515	20·7	3606	27·5	9797	43·1	19758	42 5·9	34223	72 37·2	49560	23
38	58·9	543	22·8	3683	31·8	9930	51·9	19961	25·7	34498	73 19·9	49725	22
39	59·6	572	25·0	3760	36·2	10063	29 0·8	20166	45·8	34775	74 2·8	49884	21
40	18 0·4	602	27·2	3838	40·7	10198	9·9	20372	43 6·2	35052	46·1	50037	20
41	18° 1·2	633	19°29·4	3917	22°45·2	10334	29°19·1	20578	43°27·0	35330	75°29·8	50183	19
42	2·0	664	31·6	3997	49·8	10471	28·4	20787	48·0	35608	76 13·7	50323	18
43	2·8	696	33·9	4078	54·4	10609	37·8	20996	44 9·3	35887	57·9	50456	17
44	3·6	729	36·2	4159	59·0	10748	47·4	21207	30·9	36167	77 42·4	50582	16
45	4·5	763	38·5	4242	23 3·7	10888	57·0	21420	52·8	36447	78 27·1	50701	15
46	18° 5·4	797	19°40·9	4325	23° 8·5	11030	30° 6·7	21633	45°15·1	36728	79°12·1	50813	14
47	6·3	833	43·3	4409	13·3	11172	16·6	21848	37·7	37009	57·4	50919	13
48	7·3	869	45·7	4494	18·2	11315	26·7	22064	46 0·6	37290	80 42·9	51016	12
49	8·2	905	48·1	4580	23·1	11460	36·8	22282	23·8	37571	81 28·5	51107	11
50	9·2	943	50·6	4667	28·1	11605	47·1	22501	47·4	37853	82 14·4	51190	10
51	18°10·2	981	19°53·1	4755	23°33·2	11752	30°57·5	22721	47°11·3	38134	83° 0·5	51265	9
52	11·2	1020	55·7	4843	38·3	11899	31 8·1	22942	35·5	38416	46·7	51333	8
53	12·2	1060	58·2	4933	43·5	12048	18·8	23165	48 0·1	38698	84 33·0	51392	7
54	13·3	1101	20 0·8	5023	48·7	12198	29·6	23390	25·1	38980	85 19·5	51445	6
55	14·4	1142	3·5	5115	54·0	12349	40·6	23615	50·4	39262	86 6·1	51489	5
56	18°15·5	1184	20° 6·1	5207	23°59·3	12502	31°51·7	23842	49°16·1	39544	86°52·7	51524	4
57	16·6	1228	8·8	5300	24 4·7	12655	32 3·0	24070	42·2	39825	87 39·5	51553	3
58	17·7	1271	11·6	5394	10·2	12809	14·4	24299	50 8·6	40105	88 26·3	51573	2
59	18·9	1316	14·3	5489	15·8	12965	25·9	24530	35·4	40386	89 13·1	51585	1
60	20·1	1361	17·1	5584	21·4	13122	37·7	24762	51 2·6	40666	90 0·0	51589	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	18° 0-0	0	18°35-5	1357	20°33-9	5566	24°40-7	13071	33° 1-0	24633	51°27-6	40333	60
1	0-0	0	36-7	1403	36-8	5663	46-5	13228	13-0	24864	55-1	40607	59
2	0-0	2	38-0	1450	39-7	5760	52-3	13386	25-1	25096	52 22-9	40880	58
3	0-1	3	39-3	1498	42-6	5858	58-1	13545	37-4	25330	51-2	41153	57
4	0-1	6	40-6	1546	45-6	5958	25 4-0	13705	49-8	25566	53 19-8	41424	56
5	0-2	9	41-9	1595	48-6	6058	10-0	13867	34 2-4	25803	48-8	41695	55
6	18° 0-3	14	18°43-2	1645	20°51-6	6159	25°16-1	14030	34°15-2	26041	54°18-2	41964	54
7	0-5	18	44-6	1696	54-7	6260	22-2	14194	28-1	26280	48-0	42232	53
8	0-6	24	46-0	1748	57-8	6363	28-5	14359	41-2	26520	55 18-2	42498	52
9	0-8	30	47-4	1800	21 1-0	6467	34-8	14525	54-5	26762	48-9	42764	51
10	1-0	38	48-8	1853	4-2	6571	41-1	14693	35 8-0	27004	56 19-9	43028	50
11	18° 1-2	45	18°50-3	1907	21° 7-4	6677	25°47-5	14861	35°21-6	27249	56°51-3	43290	49
12	1-4	54	51-7	1962	10-6	6783	54-0	15031	35-5	27494	57 23-1	43550	48
13	1-6	63	53-2	2017	13-9	6891	26 0-6	15202	49-5	27741	55-4	43807	47
14	1-9	74	54-8	2074	17-3	6999	7-3	15374	36 3-7	27988	58 28-0	44063	46
15	2-2	84	56-3	2131	20-7	7109	14-0	15547	18-1	28237	59 1-1	44317	45
16	18° 2-5	96	18°57-9	2189	21°24-1	7219	26°20-8	15722	36°32-7	28487	59°34-6	44568	44
17	2-8	108	59-5	2247	27-5	7330	27-7	15897	47-6	28739	60 8-5	44817	43
18	3-1	121	19 1-1	2307	31-0	7442	34-7	16074	37 2-6	28991	42-8	45064	42
19	3-5	135	2-8	2367	34-6	7556	41-8	16252	17-8	29245	61 17-5	45308	41
20	3-9	149	4-4	2429	38-2	7669	49-0	16432	33-2	29500	52-7	45547	40
21	18° 4-3	165	19° 6-1	2491	21°41-8	7785	26°56-2	16612	37°48-9	29756	62°28-3	45784	39
22	4-7	181	7-9	2553	45-4	7901	27 3-5	16794	38 4-8	30014	63 4-3	46017	38
23	5-1	198	9-6	2617	49-1	8018	10-9	16977	20-9	30272	40-7	46248	37
24	5-6	215	11-4	2681	52-9	8137	18-4	17161	37-2	30530	64 17-5	46475	36
25	6-0	234	13-2	2747	56-7	8256	26-0	17346	53-7	30790	54-7	46698	35
26	18° 6-5	253	19°15-0	2813	22° 0-5	8376	27°33-7	17533	39°10-5	31051	65°32-3	46918	34
27	7-0	273	16-9	2880	4-4	8497	41-5	17721	27-5	31314	66 10-4	47133	33
28	7-6	293	18-7	2947	8-3	8618	49-4	17910	44-8	31578	48-8	47345	32
29	8-1	315	20-6	3016	12-3	8741	57-4	18100	40 2-2	31843	67 27-6	47551	31
30	8-7	337	22-6	3086	16-3	8865	28 5-4	18291	20-0	32108	68 6-8	47754	30
31	18° 9-3	360	19°24-5	3156	22°20-4	8991	28°13-6	18484	40°38-0	32374	68°46-4	47951	29
32	9-9	384	26-5	3227	24-5	9117	21-9	18679	56-2	32640	69 26-4	48142	28
33	10-5	408	28-5	3299	28-6	9244	30-3	18874	41 14-7	32909	70 6-8	48331	27
34	11-2	434	30-6	3372	32-8	9371	38-7	19070	33-5	33178	47-5	48514	26
35	11-9	459	32-6	3445	37-1	9500	47-3	19268	52-5	33448	71 28-5	48691	25
36	18°12-6	486	19°34-7	3519	22°41-4	9630	28°56-0	19468	42°11-8	33718	72°10-0	48864	24
37	13-3	514	36-9	3595	45-7	9762	29 4-8	19668	31-4	33990	51-8	49029	23
38	14-0	542	39-0	3671	50-1	9894	13-7	19869	51-3	34262	73 33-9	49190	22
39	14-8	571	41-2	3748	54-6	10027	22-7	20072	43 11-4	34535	74 16-3	49345	21
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41	18°16-4	631	19°45-6	3904	23° 3-6	10297	29°41-1	20482	43°52-6	35082	75°42-1	49635	19
42	17-2	663	47-9	3984	8-2	10433	50-4	20689	44 13-6	35356	76 25-5	49769	18
43	18-0	694	50-2	4065	12-9	10571	59-9	20897	34-9	35632	77 9-1	49900	17
44	18-9	727	52-5	4146	17-6	10709	30 9-5	21106	56-6	35907	53-0	50023	16
45	19-8	761	54-9	4228	22-3	10848	19-2	21317	45 18-5	36183	78 37-1	50140	15
46	18°20-7	796	19°57-3	4311	23°27-2	10989	30°29-1	21529	45°40-8	36459	79°21-5	50247	14
47	21-6	830	59-7	4395	32-1	11131	39-1	21743	46 3-3	36736	80 6-2	50350	13
48	22-5	866	20 2-1	4480	37-0	11273	49-2	21957	26-2	37013	51-0	50446	12
49	23-5	903	4-6	4566	41-9	11417	59-4	22173	49-4	37290	81 36-0	50533	11
50	24-5	940	7-1	4652	47-0	11562	31 9-7	22390	47 13-0	37567	82 21-2	50614	10
51	18°25-5	978	20° 9-6	4740	23°52-1	11708	31°20-2	22609	47°36-9	37844	83° 6-6	50687	9
52	26-5	1018	12-2	4828	57-3	11855	30-9	22829	48 1-1	38122	52-2	50753	8
53	27-6	1057	14-8	4917	24 2-5	12003	41-6	23049	25-7	38399	84 37-8	50811	7
54	28-6	1098	17-4	5007	7-8	12152	52-5	23272	50-6	38677	85 23-6	50861	6
55	29-7	1139	20-2	5098	13-1	12303	32 3-6	23495	49 15-8	38953	86 9-5	50904	5
56	18°30-8	1181	20°22-8	5190	24°18-5	12454	32°14-8	23720	49°41-5	39230	86°55-5	50939	4
57	32-0	1224	25-5	5283	24-0	12607	26-1	23946	50 7-5	39506	87 41-6	50967	3
58	33-1	1268	28-3	5376	29-5	12760	37-6	24174	33-8	39782	88 27-7	50986	2
59	34-3	1312	31-1	5471	35-1	12915	49-3	24403	51 0-5	40058	89 13-8	50998	1
60	35-5	1357	33-9	5566	40-7	13071	33 1-0	24633	27-6	40333	90 0-0	51002	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
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1	15-0	0	52-2	1399	53-6	5644	5-9	13176	36-3	24732	52 19-7	40269	59
2	15-0	1	53-4	1446	56-5	5741	11-7	13333	48-5	24963	47-4	40538	58
3	15-1	3	54-7	1493	59-5	5839	17-6	13492	34 0-8	25195	53 15-6	40805	57
4	15-1	6	56-0	1541	21 2-5	5938	23-6	13652	13-3	25428	44-1	41072	56
5	15-3	9	57-4	1590	5-5	6038	29-7	13812	26-0	25662	54 12-9	41337	55
6	18°15-4	13	18°58-7	1640	21° 8-6	6138	25°35-8	13974	34°38-8	25898	54°42-2	41601	54
7	15-5	18	19 0-1	1690	11-7	6239	42-0	14137	51-8	26134	55 11-9	41864	53
8	15-6	24	1-5	1742	14-9	6342	48-2	14301	35 5-0	26373	41-9	42125	52
9	15-8	30	2-9	1794	18-1	6445	54-6	14466	18-4	26612	56 12-4	42385	51
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	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
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1	30·0	0 7·6	1395 10·4	5626 25·2	13124 59·5	24599 43·9	39933 59
2	30·0	1 8·9	1441 13·4	5723 31·1	13280 34 11·7	24827 53 11·5	40197 58
3	30·1	3 10·2	1489 16·4	5820 37·1	13438 24·1	25057 39·5	40459 57
4	30·2	6 11·5	1537 19·4	5918 43·1	13597 36·7	25289 54 7·9	40720 56
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9	30·8	30 18·5	1789 35·1	6424 14·4	14408 42·1	26461 35·5	42010 51
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11	18°31·2	45 19°21·5	1895 21°41·7	6632 26°27·4	14739 36° 9·5	26938 57°37·2	42513 49
12	31·4	54 23·0	1950 45·0	6737 34·0	14906 23·4	27179 58 8·6	42762 48
13	31·7	63 24·5	2005 48·4	6844 40·7	15076 37·6	27420 40·5	43010 47
14	31·9	73 26·1	2061 51·8	6952 47·5	15246 51·9	27663 59 12·7	43254 46
15	32·2	84 27·7	2118 55·2	7061 54·4	15417 37 6·5	27907 45·3	43498 45
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21	18°34·4	164 19°37·7	2475 22°16·8	7731 27°37·3	16469 38°37·9	29394 63° 9·3	44900 39
22	34·8	180 39·5	2538 20·5	7847 44·7	16649 53·9	29645 44·6	45124 38
23	35·2	197 41·3	2601 24·3	7963 52·3	16829 39 10·1	29897 64 20·4	45343 37
24	35·7	214 43·1	2665 28·1	8080 59·9	17011 26·5	30149 56·5	45560 36
25	36·2	233 44·9	2730 32·0	8198 28 7·6	17194 43·1	30404 65 33·1	45772 35
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27	37·2	271 48·7	2862 39·9	8437 23·4	17564 17·1	30916 47·3	46187 33
28	37·8	292 50·6	2929 43·9	8558 31·4	17751 34·5	31173 67 24·9	46387 32
29	38·3	313 52·5	2997 48·0	8680 39·5	17938 52·1	31431 68 3·0	46584 31
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31	18°39·5	358 19°56·5	3136 22°56·2	8927 28°56·0	18318 41°27·9	31949 69°20·1	46964 29
32	40·2	382 58·5	3206 23 0·4	9052 29 4·4	18510 46·3	32211 59·2	47147 28
33	40·8	406 20 0·6	3278 4·6	9178 12·9	18702 42 4·8	32471 70 38·7	47326 27
34	41·5	431 2·7	3351 8·9	9305 21·5	18895 23·7	32732 71 18·5	47498 26
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38	44·4	539 11·3	3649 26·6	9822 57·0	19684 41·6	33789 74 0·9	48139 22
39	45·1	567 13·5	3725 31·1	9954 30 6·2	19884 44 1·8	34053 42·3	48286 21
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47	52·1	825 32·4	4367 9·4	11047 23·6	21529 53·7	36191 80 23·0	49237 13
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53	58·2	1051 47·9	4886 40·4	11911 27·0	22815 49 15·7	37802 47·0	49672 7
54	59·3	1091 50·6	4975 45·8	12059 38·1	23033 40·5	38069 85 31·6	49720 6
55	19 0·4	1132 53·3	5065 51·2	12208 49·3	23263 50 5·6	38337 86 16·2	49760 5
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	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H		1 H		2 H		3 H		4 H		5 H		
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52	12-4	1008	21 1-8	4781	53-9	11719	38-6	22481	49 15-7	37240	84 7-8	49061	8
53	13-5	1048	4-5	4869	59-3	11865	49-5	22697	40-1	37503	84 51-6	49114	7
54	14-6	1088	7-2	4959	25 4-7	12012	33 0-6	22913	50 4-9	37767	85 35-4	49161	6
55	15-8	1129	9-9	5049	10-2	12160	11-9	23132	30-0	38031	86 19-4	49199	5
56	19°16-9	1171	21°12-7	5139	25°15-7	12309	33°23-3	23351	50°55-4	38293	87° 3-4	49232	4
57	18-1	1213	15-5	5231	21-4	12459	34-8	23571	51 21-2	38555	87 47-5	49258	3
58	19-3	1256	18-4	5324	27-1	12611	46-5	23793	47-3	38817	88 31-6	49276	2
59	20-5	1300	21-3	5417	32-8	12763	58-4	24016	52 13-7	39078	89 15-8	49287	1
60	21-8	1345	24-2	5512	38-6	12916	34 10-4	24240	40-6	39338	90 0-0	49290	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	19° 0-0	0	19°37-2	1341	21°41-0	5493	25°57-8	12864	34°33-2	24109	53° 4-1	39010	60
1	0-0	0	38-5	1386	43-9	5588	26 3-8	13018	45-4	24332	31-2	39265	59
2	0-0	1	39-8	1433	47-0	5684	9-8	13173	57-8	24555	58-6	39520	58
3	0-1	3	41-1	1480	50-1	5780	15-9	13329	35 10-3	24781	54 26-4	39772	57
4	0-2	6	42-5	1527	53-2	5878	22-0	13486	23-0	25007	54-5	40023	56
5	0-3	9	43-8	1576	56-3	5976	28-2	13644	35-9	25235	55 23-0	40274	55
6	19° 0-4	13	19°45-2	1626	21°59-4	6075	26°34-5	13802	35°48-9	25464	55°51-8	40523	54
7	0-5	18	46-7	1676	22 2-7	6176	40-9	13963	36 2-1	25694	56 21-0	40771	53
8	0-6	24	48-1	1727	5-9	6277	47-3	14124	15-5	25926	50-6	41018	52
9	0-8	30	49-6	1778	9-2	6379	53-8	14286	29-0	26158	57 20-5	41262	51
10	1-0	37	51-1	1830	12-5	6482	27 0-4	14449	42-7	26391	50-8	41506	50
11	19° 1-2	45	19°52-6	1884	22°15-9	6586	27° 7-1	14614	36°56-6	26626	58°21-5	41746	49
12	1-5	53	54-2	1938	19-3	6691	13-8	14780	37 10-7	26862	52-5	41986	48
13	1-7	62	55-7	1993	22-7	6797	20-6	14948	25-0	27098	59 23-9	42223	47
14	2-0	72	57-3	2048	26-2	6903	27-5	15116	39-4	27335	55-7	42458	46
15	2-3	83	59-0	2105	29-7	7011	34-5	15285	54-1	27574	60 27-9	42690	45
16	19° 2-6	95	20° 0-6	2162	22°33-3	7120	27°41-5	15456	38° 8-9	27814	61° 0-4	42922	44
17	2-9	107	2-3	2220	36-9	7229	48-7	15627	24-0	28054	33 3	43150	43
18	3-3	120	4-0	2279	40-5	7340	55-9	15800	39-2	28296	62 6-6	43375	42
19	3-6	134	5-7	2338	44-2	7452	28 3-2	15973	54-6	28539	40-2	43596	41
20	4-0	148	7-4	2398	48-0	7564	10-6	16148	39 10-3	28783	63 14-3	43815	40
21	19° 4-5	163	20° 9-2	2460	22°51-7	7677	28°18-1	16324	39°26-1	29028	63°48-4	44031	39
22	4-9	179	11-0	2522	55-5	7791	25-7	16501	42-2	29274	64 23-4	44246	38
23	5-3	196	12-9	2585	59-4	7906	33-3	16680	58-5	29520	58-5	44455	37
24	5-8	213	14-7	2649	23 3-3	8022	41-0	16860	40 15-0	29768	65 34-0	44661	36
25	6-3	231	16-6	2713	7-3	8139	48-8	17040	31-7	30016	66 9-9	44864	35
26	19° 6-8	251	20°18-5	2778	23°11-3	8257	28°56-8	17221	40°48-7	30266	66°46-1	45064	34
27	7-3	270	20-4	2844	15-3	8376	29 4-9	17404	41 5-9	30516	67 22-6	45259	33
28	7-9	290	22-4	2911	19-4	8496	13-0	17589	23-3	30766	59-5	45450	32
29	8-5	311	24-4	2979	23-5	8617	21-3	17774	40-9	31018	68 36-8	45637	31
30	9-1	334	26-4	3047	27-7	8739	29-6	17960	58-8	31271	69 14-4	45820	30
31	19° 9-7	356	20°28-5	3116	23°31-9	8862	29°38-0	18149	42°16-9	31524	69°52-3	45999	29
32	10-4	380	30-5	3186	36-2	8986	46-6	18338	35-3	31777	70 30-6	46174	28
33	11-1	403	32-6	3258	40-5	9110	55-2	18527	53-9	32032	71 9-2	46343	27
34	11-7	428	34-8	3330	44-9	9236	30 3-9	18719	43 12-8	32288	48-1	46508	26
35	12-4	454	36-9	3402	49-3	9363	12-8	18911	31-9	32543	72 27-3	46667	25
36	19°13-2	481	20°39-1	3475	23°53-8	9490	30°21-7	19105	43°51-3	32799	73° 6-8	46821	24
37	13-9	508	41-3	3550	58-3	9619	30-8	19299	44 11-0	33056	46-6	46971	23
38	14-7	535	43-6	3625	24 2-9	9749	39-9	19496	30-9	33313	74 26-7	47115	22
39	15-5	564	45-9	3701	7-5	9880	49-2	19693	51-1	33571	75 7-1	47254	21
40	16-3	593	48-2	3778	12-2	10012	58-6	19890	45 11-6	33829	47-7	47387	20
41	19°17-1	624	20°50-5	3855	24°16-9	10144	31° 8-1	20090	45°32-3	34088	76°28-7	47515	19
42	18-0	655	52-9	3934	21-7	10278	17-8	20291	53-3	34347	77 9-8	47636	18
43	18-9	686	55-3	4013	26-6	10413	27-5	20493	46 14-6	34607	51-2	47752	17
44	19-8	718	57-7	4093	31-5	10549	37-4	20696	36-2	34867	78 32-9	47861	16
45	20-7	752	21 0-2	4174	36-4	10686	47-4	20900	58-1	35127	79 14-7	47966	15
46	19°21-6	786	21° 2-7	4256	24°41-4	10823	31°57-5	21106	47°20-3	35387	79°56-8	48063	14
47	22-6	820	5-2	4339	46-5	10963	32 7-7	21313	42-8	35647	80 39-0	48155	13
48	23-6	856	7-7	4422	51-6	11103	18-1	21520	48 5-6	35907	81 21-4	48240	12
49	24-6	892	10-3	4507	56-8	11244	28-6	21730	28-7	36167	82 4-0	48319	11
50	25-6	929	12-9	4592	25 2-0	11386	39-2	21940	52-1	36427	46-8	48389	10
51	19°26-7	967	21°15-6	4678	25° 7-3	11529	32°50-0	22151	49°15-9	36687	83°29-7	48455	9
52	27-8	1005	18-3	4765	12-7	11672	33 0-9	22364	39-9	36947	84 12-8	48514	8
53	28-9	1045	21-0	4853	18-1	11818	11-9	22578	50 4-3	37206	55-9	48566	7
54	30-0	1084	23-7	4942	23-6	11964	23-1	22793	29-0	37465	85 39-2	48611	6
55	31-1	1125	26-5	5032	29-1	12111	34-4	23009	54-0	37724	86 22-5	48649	5
56	19°32-3	1167	21°29-3	5122	25°34-7	12259	33°45-9	23227	51°19-3	37983	87° 5-9	48680	4
57	33-5	1209	32-2	5214	40-4	12409	57-5	23445	45-0	38241	49-4	48704	3
58	34-7	1252	35-1	5306	46-2	12560	34 9-2	23665	52 11-1	38498	88 32-9	48721	2
59	35-9	1296	38-0	5399	52-0	12711	21-1	23886	37-4	38755	89 16-4	48732	1
60	37-2	1341	41-0	5493	57-8	12864	33-2	24109	53 4-1	39010	90 0-0	48736	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	19°15'0	0	19°52'6	1337	21°57'7	5474	26°17'0	12811	34°55'9	23974	53°27'4	38683	60
1	15'0	0	53'9	1382	22 0'7	5569	23'0	12964	35 8'2	24195	54'3	38933	59
2	15'0	1	55'2	1428	3'8	5664	29'0	13118	20'6	24418	54 21'6	39182	58
3	15'1	3	56'6	1475	6'8	5760	35'2	13273	33'2	24641	49'3	39430	57
4	15'2	6	57'9	1523	10'0	5858	41'4	13429	46'0	24866	55 17'2	39677	56
5	15'3	9	59'3	1571	13'1	5956	47'6	13586	58'9	25091	45'6	39923	55
6	19°15'4	13	20° 0'7	1620	22°16'4	6055	26°54'0	13744	36°11'9	25318	56°14'3	40168	54
7	15'5	18	2'2	1670	19'6	6155	27 0'4	13904	25'2	25546	43'3	40411	53
8	15'7	24	3'6	1721	22'9	6255	6'9	14064	38'6	25775	57 12'7	40652	52
9	15'8	30	5'1	1772	26'2	6357	13'4	14226	52'2	26005	42'5	40892	51
10	16'0	37	6'7	1825	29'6	6460	20'1	14388	37 6'0	26236	58 12'6	41130	50
11	19°16'2	45	20° 8'2	1878	22°33'0	6563	27°26'8	14552	37°19'9	26468	58°43'1	41366	49
12	16'5	53	9'8	1932	36'4	6667	33'6	14717	34'1	26701	59 13'9	41601	48
13	16'7	62	11'3	1986	39'9	6773	40'5	14883	48'4	26935	45'1	41834	47
14	17'0	72	13'0	2042	43'4	6879	47'4	15050	38 2'9	27171	60 16'7	42063	46
15	17'3	83	14'6	2098	46'9	6986	54'4	15218	17'6	27407	48'6	42291	45
16	19°17'6	94	20°16'3	2155	22°50'5	7095	28° 1'6	15387	38°32'6	27644	61°20'9	42517	44
17	17'9	107	18'0	2213	54'2	7203	8'8	15558	47'7	27882	53'5	42739	43
18	18'3	120	19'7	2271	57'9	7313	16'0	15729	39 2'9	28121	62 26'6	42960	42
19	18'7	133	21'4	2331	23 1'6	7424	23'4	15902	18'3	28361	59'9	43177	41
20	19'1	147	23'2	2391	5'4	7536	30'9	16076	34'0	28602	63 33'7	43391	40
21	19°19'5	163	20°25'0	2452	23° 9'2	7649	28°38'4	16251	39°49'9	28844	64° 7'8	43603	39
22	19'9	178	26'8	2514	13'0	7763	46'0	16427	40 6'1	29087	42'2	43811	38
23	20'4	195	28'7	2576	16'9	7877	53'8	16604	22'4	29331	65 17'0	44016	37
24	20'9	213	30'6	2640	20'9	7993	29 1'6	16782	38'9	29575	52'2	44218	36
25	21'4	231	32'4	2704	24'9	8109	9'5	16962	55'7	29821	66 27'7	44416	35
26	19°21'9	249	20°34'4	2769	23°28'9	8227	29°17'5	17142	41°12'7	30067	67° 3'5	44611	34
27	22'5	269	36'3	2834	33'0	8345	25'6	17324	29'9	30314	39'7	44802	33
28	23'0	289	38'3	2902	37'1	8465	33'8	17507	47'3	30562	68 16'3	44988	32
29	23'6	310	40'3	2969	41'3	8585	42'1	17691	42 5'0	30810	53'1	45171	31
30	24'2	332	42'4	3037	45'5	8706	50'4	17877	22'9	31060	69 30'2	45349	30
31	19°24'9	355	20°44'5	3106	23°49'7	8829	29°58'9	18063	42°41'1	31310	70° 7'8	45524	29
32	25'5	378	46'6	3176	54'1	8952	30 7'5	18250	59'5	31560	45'7	45694	28
33	26'2	402	48'7	3247	58'4	9076	16'2	18439	43 18'1	31811	71 23'9	45859	27
34	26'9	427	50'8	3318	24 2'8	9201	25'0	18629	37'0	32063	72 2'4	46020	26
35	27'6	453	53'0	3391	7'3	9327	33'9	18820	56'1	32316	41'1	46175	25
36	19°28'3	479	20°55'2	3464	24°11'8	9455	30°42'9	19012	44°15'5	32569	73°20'2	46326	24
37	29'1	506	57'4	3538	16'4	9583	52'1	19206	35'2	32822	59'5	46471	23
38	29'9	534	59'7	3613	21'0	9712	31 1'3	19400	55'1	33076	74 39'1	46612	22
39	30'7	562	21 2'0	3689	25'7	9842	10'6	19596	45 15'3	33330	75 19'0	46748	21
40	31'5	592	4'4	3765	30'4	9973	20'1	19793	35'8	33585	59'2	46877	20
41	19°32'3	622	21° 6'7	3843	24°35'2	10106	31°29'7	19991	45°56'5	33840	76°39'6	47001	19
42	33'2	652	9'1	3921	40'0	10239	39'3	20190	46 17'5	34095	77 20'2	47120	18
43	34'1	684	11'5	4000	44'9	10373	49'2	20390	38'8	34351	78 1'1	47233	17
44	35'0	716	14'0	4080	49'8	10508	59'1	20592	47 0'4	34607	42'2	47340	16
45	35'9	749	16'5	4160	54'8	10644	32 9'1	20794	22'3	34863	79 23'5	47441	15
46	19°36'9	783	21°19'0	4242	24°59'9	10781	32°19'3	20998	47°44'5	35119	80° 5'0	47536	14
47	37'8	818	21'5	4324	25 5'0	10920	29'6	21203	48 6'9	35375	46'7	47624	13
48	38'8	853	24'1	4408	10'2	11059	40'1	21410	29'7	35631	81 28'6	47706	12
49	39'9	889	26'7	4492	15'4	11199	50'6	21617	52'7	35887	82 10'6	47783	11
50	40'9	926	29'4	4577	20'7	11340	33 1'3	21826	49 16'1	36143	52'8	47853	10
51	19°42'0	964	21°32'1	4663	25°26'0	11483	33°12'1	22035	49°39'8	36399	83°35'1	47917	9
52	43'1	1002	34'8	4749	31'4	11626	23'1	22246	50 3'8	36655	84 17'6	47973	8
53	44'2	1041	37'5	4837	36'9	11770	34'2	22458	28'1	36910	85 0'1	48024	7
54	45'3	1081	40'3	4925	42'4	11916	45'4	22671	52'7	37165	42'8	48068	6
55	46'5	1122	43'1	5014	48'0	12063	56'8	22886	51 17'7	37420	86 25'5	48104	5
56	19°47'6	1163	21°45'9	5105	25°53'6	12210	34° 8'3	23101	51°43'0	37674	87° 8'3	48134	4
57	48'8	1206	48'8	5196	59'4	12359	20'0	23317	52 8'6	37927	51'2	48159	3
58	50'1	1249	51'7	5288	26 5'2	12508	31'8	23535	34'5	38179	88 34'1	48176	2
59	51'3	1292	54'7	5380	11'1	12659	43'8	23754	53 0'8	38431	89 17'0	48186	1
60	52'6	1337	57'7	5474	17'0	12811	55'9	23974	27'4	38683	90 0'0	48189	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	19°30'0	0	20° 8'0	1333	22°14'4	5455	26°36'1	12758	35°18'5	23841	53°50'3	38358	60
1	30'0	0	9'3	1378	17'4	5549	42'1	12910	30'8	24060	54 17'1	38603	59
2	30'0	1	10'7	1423	20'5	5644	48'2	13063	43'3	24280	44'3	38848	58
3	30'1	3	12'0	1470	23'7	5740	54'4	13217	55'9	24501	55 11'8	39091	57
4	30'2	6	13'4	1518	26'8	5837	27 0'7	13372	36 8'7	24724	39'6	39334	56
5	30'3	9	14'8	1566	30'0	5935	7'0	13528	21'7	24947	56 7'8	39575	55
6	19°30'4	13	20°16'2	1615	22°33'2	6033	27°13'4	13686	36°34'8	25171	56°36'4	39814	54
7	30'5	18	17'7	1665	36'5	6133	19'9	13844	48'1	25397	57 5'3	40053	53
8	30'7	24	19'2	1716	39'8	6233	26'4	14004	37 1'6	25624	34'5	40289	52
9	30'8	30	20'7	1767	43'2	6334	33'0	14164	15'3	25851	58 4'1	40525	51
10	31'0	37	22'2	1819	46'6	6437	39'7	14326	29'1	26079	34'0	40759	50
11	19°31'3	44	20°23'8	1872	22°50'0	6540	27°46'5	14489	37°43'1	26310	59° 4'3	40989	49
12	31'5	53	25'3	1925	53'5	6643	53'3	14652	57'3	26541	34'9	41219	48
13	31'7	62	26'9	1980	57'0	6749	28 0'2	14817	38 11'7	26772	60 5'9	41447	47
14	32'0	72	28'6	2035	23 0'5	6855	7'3	14984	26'2	27004	37'2	41672	46
15	32'3	83	30'2	2091	4'1	6961	14'4	15151	40'9	27239	61 8'9	41895	45
16	19°32'6	94	20°31'9	2148	23° 7'8	7069	28°21'5	15318	38°55'9	27474	61°41'0	42115	44
17	33'0	106	33'6	2206	11'4	7177	28'8	15488	39 11'0	27709	62 13'4	42334	43
18	33'3	119	35'4	2264	15'2	7287	36'1	15658	26'3	27945	46'1	42549	42
19	33'7	133	37'1	2323	18'9	7397	43'5	15830	41'9	28183	63 19'2	42761	41
20	34'1	147	38'9	2383	22'7	7508	51'1	16003	57'6	28421	52'7	42972	40
21	19°34'6	162	20°40'7	2444	23°26'6	7621	28°58'6	16177	40°13'6	28661	64°26'5	43178	39
22	35'0	178	42'6	2506	30'5	7734	29 6'3	16352	29'7	28901	65 0'6	43382	38
23	35'5	195	44'5	2568	34'4	7848	14'1	16528	46'1	29141	35'1	43582	37
24	36'0	212	46'3	2631	38'4	7963	22'0	16704	41 2'6	29383	66 10'0	43779	36
25	36'5	230	48'3	2695	42'4	8079	30'0	16883	19'4	29626	45'2	43973	35
26	19°37'0	249	20°50'2	2761	23°46'5	8196	29°38'0	17062	41°36'4	29870	67°20'7	44164	34
27	37'6	268	52'2	2826	50'6	8314	46'2	17243	53'7	30114	56'5	44349	33
28	38'1	289	54'2	2892	54'8	8432	54'4	17425	42 11'2	30358	68 32'7	44531	32
29	38'7	309	56'2	2959	59'0	8553	30 2'8	17608	28'9	30603	69 9'2	44710	31
30	39'3	331	58'3	3027	24 3'2	8673	11'2	17792	46'8	30849	46'0	44884	30
31	19°39'9	354	21° 0'4	3096	24° 7'6	8795	30°19'8	17977	43° 5'0	31096	70°23'1	45054	29
32	40'6	376	2'5	3165	11'9	8918	28'4	18163	23'4	31343	71 0'6	45221	28
33	41'3	401	4'6	3236	16'3	9042	37'1	18350	42'0	31591	38'3	45382	27
34	42'0	426	6'8	3307	20'9	9166	46'0	18539	44 0'9	31840	72 16'3	45538	26
35	42'7	451	9'0	3380	25'3	9292	55'0	18729	20'1	32089	54'6	45690	25
36	19°43'5	478	21°11'3	3453	24°29'8	9419	31° 4'0	18920	44°39'5	32338	73°33'3	45836	24
37	44'2	504	13'5	3526	34'4	9546	13'2	19111	59'2	32588	74 12'2	45978	23
38	45'0	532	15'8	3601	39'1	9674	22'5	19304	45 19'1	32839	51'3	46115	22
39	45'8	561	18'2	3676	43'9	9804	31'9	19498	39'3	33090	75 30'7	46247	21
40	46'7	590	20'5	3752	48'6	9934	41'4	19693	59'7	33341	76 10'4	46374	20
41	19°47'5	620	21°22'9	3830	24°53'4	10066	31°51'1	19890	46°20'5	33592	76°50'3	46494	19
42	48'4	650	25'3	3908	58'3	10198	32 0'8	20088	41'5	33844	77 30'4	46609	18
43	49'3	682	27'8	3986	25 3'2	10332	10'7	20287	47 2'8	34096	78 10'8	46720	17
44	50'2	714	30'2	4066	8'2	10467	20'7	20487	24'3	34348	51'4	46825	16
45	51'1	747	32'7	4146	13'2	10602	30'8	20688	46'2	34600	79 32'2	46923	15
46	19°52'1	781	21°35'3	4227	25°18'3	10738	32°41'0	20891	48° 8'3	34852	80°13'2	47014	14
47	53'1	815	37'9	4310	23'5	10876	51'4	21094	30'7	35104	54'3	47101	13
48	54'1	850	40'5	4393	28'7	11014	33 1'9	21298	53'5	35356	81 35'6	47182	12
49	55'1	887	43'1	4476	34'0	11154	12'5	21504	49 16'5	35608	82 17'1	47255	11
50	56'2	923	45'8	4561	39'3	11295	23'3	21711	39'8	35860	58'7	47324	10
51	19°57'3	961	21°48'5	4647	25°44'7	11436	33°34'1	21919	50° 3'4	36112	83°40'4	47386	9
52	58'4	999	51'2	4733	50'2	11579	45'2	22128	27'3	36364	84 22'3	47441	8
53	59'5	1038	54'0	4820	55'7	11723	56'3	22338	51'6	36615	85 4'3	47489	7
54	20 0'6	1078	56'8	4908	26 1'3	11867	34 7'6	22549	51 16'2	36864	46'4	47531	6
55	1'8	1118	59'7	4997	6'9	12013	19'1	22762	41'0	37115	86 28'5	47568	5
56	20° 3'0	1160	22° 2'5	5087	26°12'6	12159	34°30'6	22976	52° 6'2	37365	87°10'7	47597	4
57	4'2	1202	5'5	5178	18'4	12308	42'4	23190	31'7	37614	53'0	47620	3
58	5'5	1245	8'4	5269	24'2	12456	54'2	23405	57'6	37862	88 35'3	47636	2
59	6'7	1288	11'4	5362	30'1	12606	35 6'3	23623	53 23'8	38110	89 17'6	47647	1
60	8'0	1333	14'4	5455	36'1	12758	18'5	23841	50'3	38358	90 0'0	47650	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	19°45·0	0	20°23·4	1328	22°31·1	5436	26°55·2	12704	35°40·9	23706	54°12·9	38032	60
1	45·0	0	24·7	1373	34·2	5530	27 1·3	12855	53·3	23923	39·5	38273	59
2	45·0	1	26·1	1419	37·3	5624	7·4	13007	36 5·8	24141	55 6·6	38514	58
3	45·1	3	27·5	1466	40·4	5720	13·6	13160	18·5	24361	33·9	38753	57
4	45·2	6	28·9	1514	43·6	5816	19·9	13315	31·4	24581	56 1·7	38991	56
5	45·3	9	30·3	1562	46·9	5913	26·3	13470	44·4	24802	29·7	39227	55
6	19°45·4	13	20°31·7	1610	22°50·1	6012	27°32·8	13626	36°57·6	25025	56°58·1	39462	54
7	45·5	18	33·2	1660	53·4	6111	39·3	13784	37, 10·9	25248	57 26·8	39696	53
8	45·7	24	34·7	1710	56·8	6211	45·9	13943	24·4	25472	55·9	39929	52
9	45·8	30	36·2	1761	23 0·2	6312	52·5	14102	38·2	25698	58 25·3	40159	51
10	46·0	37	37·8	1813	3·6	6414	59·3	14263	52·0	25924	55·0	40388	50
11	19°46·3	44	20°39·3	1866	23° 7·0	6516	28° 6·1	14425	38° 6·1	26152	59° 25·1	40614	49
12	46·5	52	40·9	1919	10·6	6620	13·0	14588	20·3	26380	55·5	40839	48
13	46·8	62	42·6	1973	14·1	6724	20·0	14751	34·7	26609	60 26·3	41062	47
14	47·0	72	44·2	2028	17·7	6829	27·0	14917	49·3	26839	57·4	41283	46
15	47·3	82	45·9	2084	21·3	6936	34·2	15083	39 4·1	27070	61 28·9	41501	45
16	19°47·7	94	20°47·6	2141	23°25·0	7043	28°41·4	15250	39°19·1	27302	62° 0·7	41717	44
17	48·0	106	49·3	2198	28·7	7151	48·7	15418	34·3	27535	32·9	41930	43
18	48·4	119	51·1	2257	32·4	7260	56·1	15587	49·6	27769	63 5·3	42141	42
19	48·8	132	52·8	2316	36·2	7370	29 3·6	15758	40 5·2	28004	38·2	42350	41
20	49·2	147	54·6	2375	40·1	7481	11·2	15930	21·0	28240	64 11·3	42554	40
21	19°49·6	162	20°56·5	2436	23°44·0	7592	29°18·8	16102	40°37·0	28476	64°44·9	42757	39
22	50·1	177	58·3	2497	47·9	7704	26·6	16276	53·1	28713	65 18·7	42956	38
23	50·5	194	21 0·2	2560	51·9	7819	34·4	16451	41 9·5	28951	52·9	43152	37
24	51·0	211	2·1	2623	55·9	7933	42·3	16627	26·1	29190	66 27·4	43345	36
25	51·5	229	4·1	2686	59·9	8049	50·3	16804	43·0	29430	67 2·3	43533	35
26	19°52·1	248	21° 6·1	2751	24° 4·1	8165	29°58·4	16982	42° 0·0	29670	67°37·5	43719	34
27	52·6	267	8·1	2816	8·2	8283	30 6·7	17162	17·3	29911	68 12·9	43901	33
28	53·2	288	10·1	2882	12·4	8401	15·0	17342	34·8	30153	48·7	44079	32
29	53·8	309	12·1	2949	16·7	8520	23·4	17524	52·5	30395	69 24·9	44253	31
30	54·4	330	14·2	3017	21·0	8640	31·9	17706	43 10·4	30638	70 1·3	44423	30
31	19°55·1	353	21°16·3	3086	24°25·3	8761	30°40·5	17890	43°28·6	30882	70°38·0	44589	29
32	55·7	376	18·4	3155	29·9	8884	49·2	18075	47·1	31126	71 15·1	44751	28
33	56·4	400	20·6	3225	34·2	9007	58·0	18261	44 5·7	31371	52·4	44908	27
34	57·1	424	22·8	3296	38·7	9131	31 6·9	18448	24·6	31616	72 30·0	45061	26
35	57·9	450	25·1	3368	43·2	9256	15·9	18636	43·8	31862	73 7·9	45209	25
36	19°58·6	476	21°27·3	3441	24°47·8	9382	31°25·1	18826	45° 3·2	32108	73°46·1	45352	24
37	59·4	503	29·6	3514	52·5	9509	34·3	19016	22·9	32354	74 24·5	45491	23
38	20 0·2	530	31·9	3589	57·2	9637	43·7	19208	42·8	32601	75 3·2	45625	22
39	1·0	559	34·3	3664	25 1·9	9766	53·1	19401	46 3·0	32849	42·1	45752	21
40	1·8	588	36·7	3740	6·7	9896	32 2·7	19595	23·4	33096	76 21·3	45875	20
41	20° 2·7	618	21°39·1	3817	25°11·6	10026	32°12·4	19789	46°44·1	33344	77° 0·7	45993	19
42	3·6	648	41·5	3894	16·5	10158	22·2	19986	47 5·1	33592	40·3	46106	18
43	4·5	680	44·0	3973	21·4	10291	32·1	20183	26·4	33840	78 20·2	46213	17
44	5·4	712	46·5	4052	26·5	10425	42·2	20381	47·9	34089	79 0·2	46314	16
45	6·4	745	49·0	4132	31·6	10560	52·4	20581	48 9·7	34337	40·5	46411	15
46	20° 7·3	778	21°51·6	4213	25°36·7	10695	33° 2·7	20781	48°31·8	34585	80°21·0	46500	14
47	8·3	813	54·2	4295	41·9	10832	13·1	20983	54·2	34834	81 1·6	46584	13
48	9·4	848	56·8	4378	47·2	10970	23·6	21186	49 16·9	35082	42·4	46662	12
49	10·4	884	59·5	4461	52·5	11109	34·3	21390	39·9	35330	82 23·3	46735	11
50	11·5	920	22 2·2	4545	57·9	11249	45·1	21595	50 3·2	35578	83 4·4	46801	10
51	20°12·6	958	22° 4·9	4631	26° 3·3	11390	33°56·1	21801	50°26·7	35826	83°45·6	46861	9
52	13·7	996	7·7	4717	8·8	11532	34 7·1	22008	50·6	36073	84 26·9	46915	8
53	14·8	1035	10·5	4803	14·4	11674	18·3	22217	51 14·8	36320	85 8·3	46962	7
54	16·0	1074	13·3	4891	20·0	11818	29·7	22426	39·3	36566	49·8	47004	6
55	17·1	1115	16·2	4980	25·7	11963	41·2	22637	52 4·1	36812	86 31·4	47039	5
56	20°18·4	1156	22°19·1	5069	26°31·5	12109	34°52·8	22849	52°29·2	37057	87°13·0	47068	4
57	19·6	1198	22·0	5160	37·3	12256	35 4·6	23061	54·6	37302	54·7	47090	3
58	20·8	1241	25·0	5251	43·2	12404	16·6	23275	53 20·3	37546	88 36·5	47106	2
59	22·1	1284	28·0	5343	49·1	12553	28·6	23490	46·4	37789	89 18·2	47115	1
60	23·4	1328	31·1	5436	55·2	12704	40·9	23706	54 12·9	38032	90 0·0	47119	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	20° 0-0	0	20°38-8	1324	22°47-8	5416	27°14-2	12650	36° 3-1	23571	54°35-0	37708	60
1	0-0	0	40-2	1369	50-9	5510	20-3	12800	15-6	23786	55 1-6	37945	59
2	0-0	1	41-5	1414	54-0	5604	26-5	12951	28-2	24002	28-5	38181	58
3	0-1	3	42-9	1461	57-2	5699	32-8	13103	40-9	24219	55-8	38416	57
4	0-2	6	44-3	1508	23 0-4	5795	39-2	13257	53-8	24438	56 23-3	38649	56
5	0-3	9	45-8	1556	3-7	5892	45-6	13411	37 6-9	24657	51-2	38882	55
6	20° 0-4	13	20°47-2	1604	23° 6-9	5990	27°52-1	13567	37°20-2	24877	57°19-5	39114	54
7	0-5	18	48-7	1654	10-3	6089	58-6	13723	33-6	25098	48-0	39342	53
8	0-7	23	50-2	1704	13-7	6188	28 5-3	13881	47-1	25320	58 16-9	39570	52
9	0-9	30	51-7	1755	17-1	6288	12-0	14040	38 0-9	25543	46-1	39796	51
10	1-1	37	53-3	1807	20-6	6390	18-8	14199	14-8	25767	59 15-7	40020	50
11	20° 1-3	44	20°54-9	1860	23°24-1	6492	28°25-7	14360	38°28-9	25992	59°45-6	40242	49
12	1-5	52	56-5	1913	27-6	6595	32-6	14522	43-2	26218	60 15-8	40463	48
13	1-8	62	58-2	1967	31-2	6699	39-7	14685	57-6	26445	46-4	40682	47
14	2-1	71	59-8	2022	34-8	6804	46-8	14849	39 12-3	26673	61 17-3	40896	46
15	2-4	82	21 1-5	2078	38-5	6910	54-0	15014	27-1	26901	48-5	41110	45
16	20° 2-7	93	21° 3-2	2134	23°42-2	7017	29° 1-2	15181	39°42-1	27131	62°20-1	41322	44
17	3-0	107	5-0	2191	45-9	7124	8-6	15348	57-3	27361	52-0	41531	43
18	3-4	119	6-7	2249	49-7	7233	16-1	15516	40 12-7	27593	63 24-2	41738	42
19	3-8	132	8-5	2308	53-5	7342	23-6	15685	28-3	27825	56-8	41941	41
20	4-2	146	10-4	2367	57-4	7453	31-2	15856	44-2	28058	64 29-7	42142	40
21	20° 4-7	161	21°12-2	2428	24° 1-3	7564	29°38-9	16027	41° 0-2	28291	65° 2-9	42340	39
22	5-1	177	14-1	2489	5-3	7676	46-7	16200	16-4	28525	36-4	42534	38
23	5-6	193	16-0	2551	9-3	7789	54-6	16374	32-8	28761	66 10-3	42726	37
24	6-1	210	17-9	2614	13-4	7903	30 2-6	16549	49-4	28998	44-5	42914	36
25	6-6	229	19-9	2677	17-5	8018	10-7	16724	42 6-3	29234	67 19-0	43099	35
26	20° 7-1	248	21°21-9	2742	24°21-6	8134	30°18-8	16901	42°23-4	29471	67°53-9	43279	34
27	7-7	267	23-9	2807	25-8	8251	27-1	17079	40-6	29709	68 29-0	43457	33
28	8-3	287	26-0	2873	30-0	8369	35-5	17258	58-2	29948	69 4-5	43631	32
29	8-9	308	28-0	2939	34-3	8487	43-9	17439	43 15-9	30187	40-2	43802	31
30	9-5	330	30-1	3007	38-7	8607	52-5	17621	33-9	30427	70 16-3	43968	30
31	20°10-2	352	21°32-2	3075	24°43-1	8728	31° 1-1	17803	43 52-1	30668	70°52-6	44130	29
32	10-8	375	34-4	3144	47-5	8849	9-9	17987	44 10-5	30909	71 29-3	44288	28
33	11-5	398	36-6	3214	52-0	8972	18-8	18171	29-2	31150	72 6-2	44441	27
34	12-3	423	38-9	3285	56-5	9095	27-7	18356	48-1	31392	43-4	44590	26
35	13-0	448	41-1	3357	25 1-1	9220	36-8	18544	45 7-3	31635	73 20-9	44734	25
36	20°13-8	474	21°43-4	3429	25° 5-7	9346	31°46-0	18732	45°26-7	31879	73°58-6	44874	24
37	14-5	501	45-7	3502	10-4	9472	55-3	18921	46-3	32122	74 36-6	45009	23
38	15-3	529	48-0	3576	15-2	9599	32 4-7	19111	46 6-2	32365	75 14-8	45138	22
39	16-2	557	50-4	3651	20-0	9727	14-2	19302	26-4	32608	53-3	45264	21
40	17-0	586	52-8	3726	24-8	9856	23-9	19494	46-8	32852	76 32-0	45385	20
41	20°17-9	616	21°55-2	3803	25°29-7	9986	32°33-6	19688	47° 7-5	33096	77°11-0	45499	19
42	18-8	646	57-7	3881	34-7	10118	43-5	19883	28-5	33342	50-1	45608	18
43	19-7	678	22 0-2	3959	39-7	10250	53-5	20078	49-8	33585	78 29-5	45713	17
44	20-6	710	2-7	4038	44-8	10382	33 3-6	20275	48 11-3	33830	79 9-1	45812	16
45	21-6	742	5-3	4118	49-9	10517	13-8	20473	33-0	34075	48-8	45905	15
46	20°22-6	776	22° 7-9	4198	25°55-1	10652	33°24-2	20673	48°55-1	34320	80°28-7	45992	14
47	23-6	810	10-5	4280	26 0-3	10788	34-6	20873	49 17-5	34564	81 8-8	46075	13
48	24-6	845	13-2	4362	5-7	10925	45-2	21074	40-1	34808	49-0	46151	12
49	25-7	881	15-9	4446	11-0	11063	56-0	21275	50 3-0	35052	82 29-4	46220	11
50	26-7	917	18-6	4530	16-4	11202	34 6-8	21478	26-2	35296	83 10-0	46284	10
51	20°27-8	955	22°21-4	4614	26°21-9	11343	34°17-8	21683	50°49-7	35539	83°50-6	46343	9
52	29-0	993	24-2	4700	27-5	11484	29-0	21889	51 13-5	35783	84 31-4	46397	8
53	30-1	1031	27-0	4787	33-1	11626	40-2	22095	37-6	36026	85 12-2	46443	7
54	31-3	1071	29-8	4874	38-8	11768	51-7	22303	52 2-1	36269	53-2	46483	6
55	32-5	1111	32-7	4962	44-5	11913	35 3-2	22512	26-8	36510	86 34-2	46517	5
56	20°33-7	1152	22°35-7	5051	26°50-3	12058	35°14-9	22722	52°51-8	36752	87°15-3	46546	4
57	34-9	1194	38-6	5141	56-2	12204	26-7	22932	53 17-1	36992	56-4	46567	3
58	36-2	1237	41-6	5232	27 2-1	12352	38-7	23144	42-8	37232	88 37-6	46582	2
59	37-5	1280	44-7	5324	8-1	12500	50-9	23357	54 8-7	37470	89 18-8	46592	1
60	38-8	1324	47-8	5416	14-2	12650	36 3-1	23571	35-0	37708	90 0-0	46595	0
	11 H		10 H		9 H		8 H		7 H		6 H		m

m	0 H			1 H			2 H			3 H			4 H			5 H			
0	20°15·0	0	20°54·2	1320	23° 4·5	5397	27°33·2	12594	36°25·3	23436	54°56·9	37386	60						
1	15·0	0	55·5	1364	7·6	5490	39·3	12744	37·8	23649	55 23·4	37619	59						
2	15·0	1	56·9	1410	10·7	5584	45·6	12895	50·4	23863	50·1	37851	58						
3	15·1	3	58·3	1456	13·9	5678	51·9	13046	37 3·2	24078	56 17·3	38082	57						
4	15·2	6	59·8	1503	17·2	5774	58·3	13199	16·2	24294	44·7	38311	56						
5	15·3	9	21 1·2	1551	20·5	5870	28 4·8	13353	29·3	24511	57 12·4	38538	55						
6	20°15·4	13	21° 2·7	1599	23°23·8	5968	28°11·3	13507	37°42·6	24729	57°40·5	38765	54						
7	15·5	18	4·2	1649	27·2	6066	17·9	13662	56·0	24948	58 8·9	38990	53						
8	15·7	23	5·7	1699	30·6	6165	24·7	13819	38 9·7	25167	37·6	39213	52						
9	15·9	29	7·3	1749	34·1	6265	31·4	13977	23·4	25388	59 6·7	39434	51						
10	16·1	36	8·8	1801	37·5	6366	38·3	14136	37·4	25610	36·0	39655	50						
11	20°16·3	44	21°10·5	1853	23°41·0	6468	28°45·2	14295	38°51·6	25834	60° 5·7	39872	49						
12	16·5	52	12·1	1906	44·6	6571	52·2	14456	39 5·9	26056	35·7	40089	48						
13	16·8	62	13·7	1960	48·3	6674	59·3	14618	20·4	26281	61 6·1	40302	47						
14	17·1	71	15·4	2015	51·9	6779	29 6·5	14781	35·1	26506	36·8	40514	46						
15	17·4	82	17·1	2070	55·6	6884	13·7	14945	49·9	26732	62 7·8	40723	45						
16	20°17·7	93	21°18·9	2127	23°59·3	6990	29°21·0	15110	40° 5·0	26959	62°39·1	40930	44						
17	18·1	105	20·6	2184	24 3·1	7097	28·4	15276	20·2	27187	63 10·7	41135	43						
18	18·5	118	22·4	2241	6·9	7205	35·9	15444	35·7	27416	42·7	41337	42						
19	18·8	131	24·2	2300	10·8	7314	43·5	15612	51·3	27645	64 15·0	41535	41						
20	19·3	146	26·1	2360	14·8	7424	51·2	15781	41 7·1	27875	47·6	41732	40						
21	20°19·7	161	21°28·0	2420	24°18·7	7535	29°58·9	15952	41°23·2	28106	65°20·6	41925	39						
22	20·2	176	29·9	2481	22·7	7647	30 6·8	16123	39·4	28338	53·8	42116	38						
23	20·6	193	31·8	2542	26·7	7759	14·7	16296	55·9	28571	66 27·4	42303	37						
24	21·1	210	33·7	2605	30·8	7873	22·8	16469	42 12·5	28804	67 1·3	42487	36						
25	21·7	228	35·7	2668	34·9	7987	30·9	16644	29·4	29038	35·5	42668	35						
26	20°22·2	246	21°37·7	2732	24°39·2	8103	30°39·1	16820	42°46·5	29272	68°10·0	42845	34						
27	22·8	266	39·8	2797	43·4	8219	47·4	16997	43 3·8	29507	44·8	43019	33						
28	23·4	286	41·8	2863	47·6	8336	55·9	17174	21·3	29743	69 19·9	43189	32						
29	24·0	307	43·9	2929	52·0	8454	31 4·4	17354	39·1	29979	55·3	43355	31						
30	24·6	328	46·1	2997	56·3	8573	13·0	17534	57·0	30216	70 30·9	43517	30						
31	20°25·3	350	21°48·2	3065	25° 0·8	8693	31°21·7	17715	44°15·3	30454	71° 6·9	43675	29						
32	26·0	373	50·4	3134	5·2	8814	30·5	17897	33·7	30692	43·2	43828	28						
33	26·7	397	52·6	3203	9·8	8936	39·4	18080	52·4	30930	72 19·7	43979	27						
34	27·4	422	54·9	3274	14·3	9059	48·5	18265	45 11·3	31169	56·4	44124	26						
35	28·1	447	57·1	3345	19·0	9183	57·6	18450	30·5	31408	73 33·5	44264	25						
36	20°28·9	473	21°59·4	3417	25°23·7	9308	32° 6·8	18637	45°49·9	31647	74°10·8	44401	24						
37	29·7	500	22 1·8	3490	28·4	9433	16·2	18824	46 9·5	31887	48·4	44533	23						
38	30·5	527	4·1	3564	33·2	9560	25·7	19013	29·4	32127	75 26·2	44659	22						
39	31·3	555	6·5	3639	38·0	9688	35·2	19203	49·6	32368	76 4·2	44782	21						
40	32·2	584	8·9	3714	42·9	9816	44·9	19394	47 10·0	32608	42·5	44898	20						
41	20°33·1	614	22°11·4	3790	25°47·8	9946	32°54·7	19586	47°30·7	32849	77°20·9	45010	19						
42	34·0	644	13·9	3867	52·9	10076	33 4·6	19779	51·6	33090	59·6	45117	18						
43	34·9	675	16·4	3945	57·9	10208	14·7	19973	48 12·8	33331	78 38·5	45219	17						
44	35·8	707	19·0	4024	26 3·0	10340	24·8	20168	34·3	33571	79 17·6	45315	16						
45	36·8	740	21·6	4103	8·2	10474	35·1	20365	56·1	33812	56·8	45405	15						
46	20°37·8	773	22°24·2	4184	26°13·4	10608	33°45·6	20562	49°18·1	34053	80°36·2	45491	14						
47	38·8	807	26·8	4265	18·7	10743	56·1	20760	40·4	34294	81 15·8	45570	13						
48	39·9	842	29·5	4347	24·1	10880	34 6·7	20959	50 3·0	34535	55·5	45645	12						
49	40·9	878	32·2	4430	29·5	11017	17·5	21160	25·8	34775	82 35·4	45714	11						
50	42·0	914	35·0	4513	35·0	11156	28·5	21362	49·0	35015	83 15·5	45776	10						
51	20°43·1	951	22°37·8	4598	26°40·5	11295	34°39·5	21565	51°12·4	35255	83°55·5	45833	9						
52	44·3	989	40·6	4683	46·1	11435	50·7	21768	36·2	35494	84 35·8	45885	8						
53	45·4	1028	43·4	4770	51·7	11577	35 2·0	21973	52 0·2	35732	85 16·1	45930	7						
54	46·6	1067	46·3	4856	57·5	11719	13·5	22179	24·5	35971	56·5	45969	6						
55	47·8	1108	49·3	4944	27 3·2	11863	25·1	22386	49·2	36209	86 37·0	46002	5						
56	20°49·0	1148	22°52·2	5033	27° 9·1	12007	35°36·8	22594	53°14·1	36446	87°17·5	46029	4						
57	50·3	1190	55·2	5123	15·0	12152	48·7	22803	39·3	36682	58·1	46050	3						
58	51·6	1233	58·2	5213	21·0	12299	36 0·7	23013	54 4·9	36918	88 38·7	46066	2						
59	52·9	1277	23 1·3	5304	27·0	12446	12·9	23224	30·7	37153	89 19·3	46075	1						
60	54·2	1320	4·5	5397	33·2	12594	25·3	23436	56·9	37386	90 0·0	46078	0						
	11 H	10 H	9 H	8 H	7 H	6 H	m												

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	20°30·0	0	21° 9·6	1315	23°21·1	5377	27°52·1	12540	36°47·3	23300	55°18·4	37066	60
1	30·0	0	11·0	1360	24·2	5470	58·3	12688	59·8	23511	44·8	37295	59
2	30·0	1	12·4	1405	27·4	5563	28 4·6	12838	37 12·5	23724	56 11·5	37522	58
3	30·1	3	13·8	1451	30·7	5657	11·0	12988	25·4	23936	38·4	37748	57
4	30·2	6	15·2	1498	34·0	5752	17·4	13140	38·4	24150	57 5·7	37973	56
5	30·3	9	16·7	1546	37·3	5849	23·9	13293	51·5	24364	33·3	38197	55
6	20°30·4	13	21°18·2	1594	23°40·7	5946	28°30·5	13446	38° 4·9	24580	58° 1·2	38419	54
7	30·5	18	19·7	1643	44·1	6043	37·2	13601	18·4	24797	29·4	38640	53
8	30·7	23	21·2	1693	47·5	6142	43·9	13757	32·0	25014	58·0	38859	52
9	30·9	29	22·8	1744	51·0	6242	50·8	13913	45·9	25233	59 26·8	39076	51
10	31·1	36	24·4	1795	54·5	6342	57·7	14071	59·9	25453	56·0	39292	50
11	20°31·3	44	21°26·0	1847	23°58·0	6444	29° 4·6	14230	39°14·0	25673	60°25·5	39505	49
12	31·5	52	27·7	1900	24 1·7	6546	11·7	14390	28·4	25893	55·3	39715	48
13	31·8	61	29·3	1954	5·3	6649	18·8	14551	42·9	26116	61 25·5	39926	47
14	32·1	71	31·0	2009	9·0	6753	26·0	14713	57·6	26339	55·9	40134	46
15	32·4	82	32·8	2064	12·7	6858	33·3	14876	40 12·5	26562	62 26·7	40338	45
16	20°32·8	93	21°34·5	2119	24°16·5	6964	29°40·7	15040	40°27·6	26787	62°57·8	40541	44
17	33·1	105	36·3	2176	20·3	7070	48·2	15205	42·9	27012	63 29·2	40742	43
18	33·5	118	38·1	2234	24·2	7178	55·7	15371	58·4	27238	64 0·9	40940	42
19	33·9	131	39·9	2292	28·1	7286	30 3·4	15538	41 14·1	27465	32·9	41134	41
20	34·3	145	41·8	2351	32·0	7395	11·1	15706	29·9	27692	65 5·3	41325	40
21	20°34·8	160	21°43·7	2411	24°36·0	7506	30°18·9	15876	41°46·0	27921	65°37·9	41515	39
22	35·2	176	45·6	2472	40·0	7617	26·8	16046	42 2·3	28150	66 10·9	41701	38
23	35·7	192	47·6	2534	44·1	7729	34·8	16217	18·7	28380	44·2	41885	37
24	36·2	209	49·5	2596	48·2	7842	42·9	16389	35·4	28611	67 17·7	42065	36
25	36·7	227	51·5	2659	52·4	7956	51·1	16563	52·3	28841	51·6	42241	35
26	20°37·3	245	21°53·6	2723	24°56·6	8071	30°59·4	16737	43° 9·4	29073	68°25·8	42415	34
27	37·9	265	55·6	2788	25 0·9	8187	31 7·7	16913	26·8	29305	69 0·2	42584	33
28	38·5	284	57·7	2853	5·2	8303	16·2	17090	44·3	29537	35·0	42749	32
29	39·1	306	59·8	2919	9·6	8421	24·8	17268	44 2·0	29771	70 10·0	42912	31
30	39·7	327	22 2·0	2986	14·0	8539	33·4	17446	20·0	30005	45·3	43070	30
31	20°40·4	349	22° 4·1	3054	25°18·4	8659	31°42·2	17626	44°38·2	30239	71°20·9	43224	29
32	41·1	372	6·3	3122	23·0	8779	51·1	17808	56·7	30474	56·8	43375	28
33	41·8	396	8·6	3192	27·5	8901	32 0·0	17989	45 15·4	30709	72 32·9	43521	27
34	42·5	420	10·8	3262	32·1	9023	9·1	18172	34·3	30945	73 9·3	43663	26
35	43·3	445	13·1	3334	36·8	9146	18·3	18356	53·4	31181	45·9	43801	25
36	20°44·0	471	22°15·5	3406	25°41·5	9270	32°27·6	18542	46°12·8	31418	74°22·8	43934	24
37	44·8	498	17·8	3478	46·3	9395	37·0	18728	32·5	31653	59·9	44061	23
38	45·7	525	20·2	3551	51·1	9521	46·5	18915	52·4	31891	75 37·3	44186	22
39	46·5	553	22·6	3626	56·0	9648	56·2	19103	47 12·5	32127	76 14·9	44305	21
40	47·4	582	25·1	3701	26 0·9	9776	33 5·9	19293	32·9	32365	52·7	44419	20
41	20°48·3	612	22°27·6	3777	26° 5·9	9905	33°15·8	19483	47°53·6	32601	77°30·7	44527	19
42	49·2	642	30·1	3853	11·0	10035	25·7	19675	48 14·5	32839	78 8·9	44632	18
43	50·1	673	32·6	3931	16·1	10166	35·8	19867	35·7	33076	47·3	44731	17
44	51·1	705	35·2	4009	21·2	10298	46·0	20061	57·1	33313	79 25·9	44824	16
45	52·0	738	37·8	4089	26·5	10430	56·4	20256	49 18·8	33551	80 4·7	44913	15
46	20°53·0	771	22°40·4	4169	26°31·7	10564	34° 6·8	20451	49°40·8	33789	80°43·6	44997	14
47	54·1	805	43·1	4250	37·1	10699	17·4	20648	50 3·0	34025	81 22·7	45075	13
48	55·1	839	45·8	4332	42·4	10835	28·1	20845	25·6	34262	82 1·9	45146	12
49	56·2	875	48·6	4414	47·9	10971	39·0	21045	48·4	34498	41·3	45213	11
50	57·3	911	51·4	4497	53·4	11108	49·9	21245	51 11·5	34734	83 20·7	45275	10
51	20°58·4	948	22°54·2	4581	26°59·0	11247	35° 1·1	21446	51°34·8	34971	84° 0·3	45330	9
52	59·6	986	57·0	4666	27 4·6	11387	12·3	21648	58·5	35206	40·0	45378	8
53	21 0·8	1025	59·9	4752	10·3	11527	23·7	21851	52 22·5	35441	85 19·8	45423	7
54	1·9	1063	23 2·8	4839	16·1	11669	35·2	22055	46·7	35676	59·7	45463	6
55	3·2	1104	5·8	4926	21·9	11811	46·8	22260	53 11·2	35909	86 39·6	45494	5
56	21° 4·4	1144	23° 8·8	5015	27°27·8	11954	35°58·6	22466	53°36·1	36142	87°19·6	45520	4
57	5·7	1186	11·8	5104	33·8	12099	36 10·6	22673	54 1·2	36375	59·7	45541	3
58	7·0	1228	14·8	5194	39·8	12245	22·7	22880	26·7	36607	88 39·8	45555	2
59	8·3	1271	17·9	5285	45·9	12392	34·9	23090	52·4	36837	89 19·9	45564	1
60	9·6	1315	21·1	5377	52·1	12540	47·3	23300	55 18·4	37066	90 0·0	45567	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	20°45-0	0	21°25-0	1311	23°37-7	5357	28°10-9	12484	37° 9-1	23163	55°39-7	36747	60
1	45-0	0	26-4	1355	40-9	5449	17-2	12632	21-7	23372	56 5-9	36972	59
2	45-0	1	27-8	1400	44-1	5542	23-5	12780	34-5	23582	32-4	37195	58
3	45-1	3	29-2	1446	47-4	5636	30-0	12930	47-4	23793	59-3	37417	57
4	45-2	6	30-7	1493	50-7	5731	36-5	13081	38 0-4	24005	57 26-4	37638	56
5	45-3	9	32-2	1540	54-1	5827	43-0	13232	13-6	24217	53-8	37857	55
6	20°45-4	13	21°33-7	1588	23°57-5	5923	28°49-7	13385	38°27-0	24431	58°21-6	38075	54
7	45-5	18	35-2	1637	24 0-9	6021	56-4	13539	40-5	24646	49-7	38292	53
8	45-7	23	36-7	1687	4-4	6119	29 3-2	13694	54-2	24861	59 18-0	38507	52
9	45-9	29	38-3	1738	7-9	6218	10-1	13850	39 8-1	25077	46-7	38719	51
10	46-1	36	39-9	1789	11-4	6318	17-0	14006	22-2	25294	60 15-7	38930	50
11	20°46-3	44	21°41-6	1841	24°15-0	6419	29°24-0	14164	39°36-4	25512	60°45-0	39140	49
12	46-6	52	43-2	1893	18-7	6521	31-1	14323	50-7	25731	61 14-6	39347	48
13	46-8	61	44-9	1947	22-3	6623	38-3	14483	40 5-3	25951	44-5	39553	47
14	47-1	71	46-6	2001	26-0	6727	45-6	14644	20-1	26171	62 14-7	39756	46
15	47-4	81	48-4	2056	29-8	6831	52-9	14806	35-0	26392	45-3	39957	45
16	20°47-8	93	21°50-1	2112	24°33-6	6937	30° 0-4	14969	40°50-1	26614	63°16-1	40155	44
17	48-1	105	51-9	2169	37-5	7043	7-9	15133	41 5-4	26837	47-3	40351	43
18	48-5	117	53-8	2226	41-3	7150	15-5	15298	20-9	27061	64 18-7	40544	42
19	48-9	131	55-6	2284	45-3	7258	23-2	15464	36-6	27285	50-5	40735	41
20	49-3	145	57-5	2343	49-3	7367	30-9	15631	52-5	27510	65 22-6	40923	40
21	20°49-8	160	21°59-4	2403	24°53-3	7476	30°38-8	15799	42° 8-6	27736	65°54-9	41108	39
22	50-3	175	22 1-3	2463	57-4	7587	46-7	15968	24-9	27962	66 27-6	41291	38
23	50-8	192	3-3	2525	25 1-5	7699	54-8	16138	41-4	28189	67 0-6	41470	37
24	51-3	209	5-4	2587	5-6	7811	31 2-9	16310	58-1	28417	33-9	41646	36
25	51-8	226	7-4	2650	9-9	7925	11-2	16482	43 15-0	28645	68 7-4	41818	35
26	20°52-4	245	22° 9-4	2713	25°14-1	8039	31°19-5	16655	43°32-1	28873	68°41-2	41987	34
27	52-9	264	11-5	2778	18-4	8154	27-9	16829	49-5	29103	69 15-4	42153	33
28	53-5	284	13-6	2843	22-8	8270	36-4	17005	44 7-0	29333	49-8	42315	32
29	54-2	305	15-7	2909	27-2	8387	45-1	17181	24-8	29563	70 24-5	42474	31
30	54-8	326	17-9	2976	31-6	8505	53-8	17359	42-8	29794	59-4	42628	30
31	20°55-5	348	22°20-1	3043	25°36-1	8624	32° 2-6	17537	45° 1-0	30025	71°34-6	42779	29
32	56-2	371	22-3	3112	40-7	8744	11-5	17717	19-4	30257	72 10-1	42925	28
33	56-9	395	24-5	3181	45-3	8864	20-5	17898	38-1	30489	45-9	43069	27
34	57-6	419	26-8	3251	49-9	8986	29-7	18079	57-0	30721	73 21-9	43207	26
35	58-4	444	29-1	3322	54-6	9108	38-9	18262	46 16-2	30954	58-1	43341	25
36	20°59-2	470	22°31-5	3393	25°59-4	9232	32°48-3	18446	46°35-6	31187	74°34-6	43471	24
37	21 0-0	496	33-9	3466	26 4-2	9357	57-7	18630	55-2	31420	75 11-3	43596	23
38	0-8	523	36-3	3539	9-1	9482	33 7-3	18816	47 15-1	31653	48-2	43717	22
39	1-7	552	38-7	3613	14-0	9608	17-0	19003	35-2	31887	76 25-3	43833	21
40	2-5	580	41-2	3688	18-9	9736	26-8	19191	55-6	32121	77 2-7	43944	20
41	21° 3-4	610	22°43-7	3763	26°24-0	9864	33°36-7	19380	48°16-2	32355	77°40-3	44051	19
42	4-4	640	46-2	3840	29-1	9993	46-7	19570	37-1	32589	78 18-0	44152	18
43	5-3	671	48-8	3917	34-2	10123	56-8	19761	58-2	32822	55-9	44248	17
44	6-3	703	51-4	3995	39-4	10254	34 7-1	19953	49 19-6	33056	79 34-1	44340	16
45	7-3	735	54-0	4074	44-7	10386	17-5	20146	41-3	33290	80 12-4	44426	15
46	21° 8-3	768	22°56-7	4154	26°50-0	10519	34°28-0	20340	50° 3-2	33524	80°50-8	44507	14
47	9-3	802	59-4	4234	55-4	10653	38-6	20535	25-4	33757	81 29-4	44583	13
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	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
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4	0-2	6	46-1	1488	7-4	5710	55-5	13021	22-3	23859	46-8	37304	56
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6	21° 0-4	13	21°49-1	1583	24°14-2	5900	29° 8-8	13324	38°49-0	24282	58°41-7	37735	54
7	0-5	18	50-7	1632	17-7	5998	15-5	13477	39 2-5	24494	59 9-5	37946	53
8	0-7	23	52-2	1681	21-2	6096	22-4	13630	16-3	24708	37-7	38157	52
9	0-9	29	53-8	1732	24-8	6194	29-3	13785	30-2	24922	60 6-2	38366	51
10	1-1	36	55-5	1783	28-3	6294	36-3	13941	44-3	25136	35-0	38573	50
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19	4-0	130	11-3	2276	25 2-5	7229	42-9	15389	59-0	27104	65 7-8	40340	41
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21	21° 4-9	159	22°15-1	2395	25°10-6	7447	30°58-6	15722	42°31-0	27550	66°11-7	40706	39
22	5-3	175	17-1	2455	14-7	7557	31 6-6	15889	47-3	27774	44-0	40884	38
23	5-8	191	19-1	2516	18-8	7668	14-7	16059	43 3-9	27998	67 16-7	41059	37
24	6-3	208	21-1	2578	23-0	7780	22-9	16229	20-6	28223	49-7	41231	36
25	6-9	226	23-1	2640	27-2	7893	31-2	16399	37-5	28448	68 22-9	41399	35
26	21° 7-4	244	22°25-2	2703	25°31-5	8006	31°39-6	16572	43°54-6	28673	68°56-4	41564	34
27	8-0	263	27-3	2768	35-9	8121	48-0	16745	44 12-0	28900	69 30-2	41727	33
28	8-6	283	29-4	2833	40-3	8237	56-6	16919	29-5	29127	70 4-3	41884	32
29	9-3	304	31-6	2899	44-7	8353	32 5-3	17095	47-3	29354	38-6	42041	31
30	9-9	325	33-8	2965	49-2	8470	14-0	17271	45 5-3	29582	71 13-2	42195	30
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32	11-3	370	38-2	3101	58-3	8708	31-9	17626	42-0	30039	72 23-2	42482	28
33	12-0	393	40-5	3170	26 3-0	8828	41-0	17806	46 0-6	30268	58-5	42622	27
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37	15-1	495	49-9	3453	22-1	9318	18-3	18533	47 17-7	31187	75 22-3	43136	23
38	16-0	522	52-3	3526	26-9	9443	28-0	18717	37-5	31418	58-8	43254	22
39	16-8	550	54-8	3600	31-9	9568	37-7	18902	57-6	31647	76 35-6	43367	21
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42	19-5	637	23 2-4	3825	47-1	9951	34 7-6	19465	59-4	32339	78 26-9	43679	18
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44	21-5	700	7-6	3981	57-5	10211	28-1	19844	41-9	32799	42-0	43863	16
45	22-5	733	10-3	4059	27 2-8	10342	38-5	20036	50 3-5	33029	80 19-8	43946	15
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47	24-6	799	15-7	4219	13-6	10608	59-8	20422	47-5	33489	81 35-9	44099	13
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49	26-7	869	21-2	4382	24-6	10877	21-5	20812	32-6	33947	52-5	44231	11
50	27-8	905	24-1	4464	30-2	11013	32-6	21008	55-6	34177	83 31-0	44288	10
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52	30-2	979	29-8	4632	41-6	11288	55-1	21405	42-3	34633	48-3	44388	8
53	31-4	1018	32-8	4717	47-4	11427	36 6-6	21604	53 6-1	34860	85 27-1	44430	7
54	32-6	1057	35-7	4803	53-3	11567	18-2	21803	30-2	35087	86 5-9	44465	6
55	33-8	1097	38-7	4890	59-2	11708	30-0	22005	54-5	35313	44-8	44497	5
56	21°35-1	1137	23°41-8	4978	28° 5-2	11850	36°41-9	22208	54°19-2	35538	87°23-8	44522	4
57	36-4	1178	44-8	5066	11-2	11993	53-9	22411	44-1	35762	88 2-8	44542	3
58	37-7	1220	48-0	5156	17-3	12137	37 6-1	22615	55 9-3	35985	41-9	44557	2
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60	40-4	1306	54-3	5337	29-8	12428	30-9	23026	56 0-6	36430	90 0-0	44567	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	21°15'0	0	21°55'8	1302	24°10'9	5316	28°48'5	12371	37°52'5	22888	56°21'2	36114	60
1	15'0	0	57'2	1346	14'2	5408	54'9	12517	38 5'1	23093	47'2	36331	59
2	15'0	1	58'6	1391	17'5	5500	29 1'3	12664	17'9	23299	57 13'5	36546	58
3	15'1	3	22 0'1	1436	20'8	5593	7'9	12812	30'9	23506	40'0	36760	57
4	15'2	6	1'6	1483	24'2	5687	14'4	12961	44'0	23714	58 6'9	36973	56
5	15'3	9	3'1	1530	27'6	5782	21'1	13111	57'3	23922	34'0	37184	55
6	21°15'4	13	22° 4'6	1578	24°31'0	5878	29°27'8	13262	39°10'8	24132	59° 1'4	37394	54
7	15'5	18	6'2	1626	34'5	5974	34'6	13414	24'4	24342	29'1	37602	53
8	15'7	23	7'7	1675	38'1	6071	41'5	13567	38'2	24553	57'1	37808	52
9	15'9	29	9'3	1725	41'6	6170	48'5	13721	52'1	24764	60 25'4	38014	51
10	16'1	36	11'0	1776	45'2	6269	55'5	13875	40 6'2	24977	53'9	38217	50
11	21°16'3	43	22°12'7	1828	24°48'9	6369	30° 2'6	14031	40°20'5	25190	61°22'9	38418	49
12	16'6	52	14'4	1880	52'6	6470	9'8	14188	35'0	25404	52'1	38617	48
13	16'9	61	16'1	1934	56'3	6572	17'1	14346	49'6	25619	62 21'6	38814	47
14	17'2	70	17'8	1988	25 0'1	6674	24'5	14505	41 4'4	25835	51'4	39009	46
15	17'5	81	19'6	2042	3'9	6778	31'9	14665	19'4	26051	63 21'5	39202	45
16	21°17'8	92	22°21'4	2097	25° 7'8	6882	30°39'4	14825	41°34'6	26268	63°51'9	39392	44
17	18'2	104	23'2	2154	11'7	6987	47'1	14987	49'9	26486	64 22'5	39581	43
18	18'6	116	25'1	2211	15'7	7093	54'7	15150	42 5'5	26705	53'5	39766	42
19	19'0	130	27'0	2268	19'7	7200	31 2'5	15314	21'2	26924	65 24'7	39949	41
20	19'4	144	28'9	2327	23'7	7308	10'4	15479	37'1	27143	56'3	40129	40
21	21°19'9	159	22°30'8	2386	25°27'8	7417	31°18'4	15644	42°53'3	27364	66°28'1	40306	39
22	20'4	174	32'8	2446	31'9	7526	26'4	15811	43 9'6	27585	67 0'2	40480	38
23	20'9	190	34'8	2507	36'1	7637	34'6	15979	26'1	27806	32'5	40652	37
24	21'4	207	36'8	2569	40'4	7748	42'8	16148	42'8	28028	68 5'2	40820	36
25	21'9	225	38'9	2631	44'6	7861	51'1	16318	59'8	28251	38'1	40985	35
26	21°22'5	243	22°41'0	2694	25°49'0	7974	31°59'6	16489	44°16'9	28474	69°11'3	41146	34
27	23'1	262	43'1	2758	53'3	8088	32 8'1	16660	34'3	28698	44'8	41305	33
28	23'7	282	45'2	2823	57'8	8203	16'7	16833	51'8	28922	70 18'5	41459	32
29	24'3	303	47'4	2888	26 2'2	8319	25'4	17007	45 9'6	29146	52'7	41610	31
30	25'0	324	49'6	2955	6'8	8436	34'2	17182	27'6	29371	71 26'7	41758	30
31	21°25'7	346	22°51'9	3022	26°11'3	8553	32°43'2	17358	45°45'8	29596	72° 1'2	41902	29
32	26'4	368	54'1	3089	16'0	8672	52'2	17535	46 4'3	29822	36'0	42042	28
33	27'1	392	56'4	3158	20'6	8791	33 1'3	17713	22'9	30048	73 11'0	42179	27
34	27'9	416	58'8	3228	25'4	8912	10'5	17892	41'8	30274	46'2	42311	26
35	28'7	441	23 1'1	3298	30'2	9033	19'9	18072	47 0'9	30500	74 21'6	42439	25
36	21°29'5	467	23° 3'5	3369	26°35'0	9155	33°29'3	18252	47°20'3	30727	74°57'3	42562	24
37	30'3	493	5'9	3441	39'9	9279	38'9	18435	39'9	30954	75 33'2	42681	23
38	31'1	520	8'4	3513	44'8	9403	48'5	18618	59'7	31180	76 9'3	42796	22
39	32'0	548	10'9	3587	49'8	9528	58'3	18801	48 19'8	31408	45'6	42907	21
40	32'9	576	13'4	3661	54'9	9654	34 8'2	18986	40'1	31635	77 22'1	43012	20
41	21°33'8	606	23°16'0	3736	27° 0'0	9781	34°18'2	19172	49° 0'7	31862	77°58'7	43113	19
42	34'7	636	18'5	3812	5'1	9908	28'3	19359	21'5	32089	78 35'6	43210	18
43	35'7	666	21'1	3888	10'4	10036	38'6	19547	42'5	32316	79 12'6	43302	17
44	36'7	698	23'8	3966	15'6	10166	48'9	19736	50 3'8	32543	49'8	43388	16
45	37'7	730	26'5	4044	21'0	10297	59'4	19926	25'4	32770	80 27'2	43470	15
46	21°38'7	763	23°29'2	4123	27°26'4	10429	35°10'0	20116	50°47'2	32996	81° 4'7	43548	14
47	39'8	797	31'9	4203	31'8	10562	20'8	20308	51 9'3	33222	42'3	43620	13
48	40'9	831	34'7	4284	37'4	10695	31'6	20501	31'7	33448	82 20'1	43687	12
49	42'0	866	37'5	4365	42'9	10830	42'6	20695	54'3	33674	58'0	43749	11
50	43'1	902	40'4	4448	48'6	10965	53'7	20889	52 17'2	33899	83 36'0	43805	10
51	21°44'3	939	23°43'3	4531	27°54'3	11101	36° 5'0	21085	52°40'3	34123	84°14'1	43856	9
52	45'4	976	46'2	4615	28 0'0	11239	16'4	21282	53 3'8	34347	52'3	43902	8
53	46'7	1014	49'2	4699	5'9	11377	28'3	21479	27'5	34571	85 30'6	43943	7
54	47'9	1053	52'2	4785	11'8	11516	39'5	21678	51'5	34795	86 8'9	43979	6
55	49'1	1093	55'2	4872	17'7	11656	51'3	21877	54 15'7	35016	47'4	44009	5
56	21°50'4	1133	23°58'3	4959	28°23'8	11797	37° 3'3	22078	54°40'3	35237	87°25'8	44033	4
57	51'7	1174	24 1'3	5047	29'9	11939	15'4	22279	55 5'1	35458	88 4'3	44052	3
58	53'0	1216	4'5	5136	36'0	12082	27'6	22481	30'2	35678	43'0	44066	2
59	54'4	1258	7'7	5226	42'2	12226	39'9	22684	55'6	35896	89 21'4	44074	1
60	55'8	1302	10'9	5316	48'5	12371	52'5	22888	56 21'2	36114	90 0'0	44077	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	21°30-0	0	22°11-2	1297	24°27-5	5296	29° 7-3	12315	38°13-9	22751	56°41-6	35800	60
1	30-0	0	12-6	1341	30-8	5387	13-7	12460	26-6	22954	57 7-4	36012	59
2	30-0	1	14-0	1385	34-1	5479	20-2	12606	39-5	23157	53-5	36224	58
3	30-1	3	15-5	1431	37-5	5572	26-7	12753	52-5	23362	59-9	36434	57
4	30-2	6	17-0	1477	40-9	5665	33-3	12901	39 5-7	23567	58 26-6	36643	56
5	30-3	9	18-5	1524	44-3	5760	40-0	13050	19-0	23774	53-6	36850	55
6	21°30-4	13	22°20-1	1572	24°47-8	5855	29°46-8	13200	39°32-4	23981	59°20-9	37056	54
7	30-6	18	21-6	1620	51-3	5951	53-7	13351	46-1	24189	48-4	37261	53
8	30-7	23	23-2	1669	54-9	6048	30 0-6	13503	59-9	24398	60 16-2	37463	52
9	30-9	29	24-9	1719	58-4	6146	7-6	13655	40 13-9	24607	44-4	37664	51
10	31-1	36	26-5	1770	25 2-1	6245	14-7	13808	28-0	24818	61 12-8	37864	50
11	21°31-3	43	22°28-2	1821	25° 5-8	6344	30°21-9	13964	40°42-3	25029	61°41-5	38061	49
12	31-6	51	29-9	1873	9-5	6445	29-1	14120	56-8	25240	62 10-5	38255	48
13	31-9	61	31-7	1927	13-3	6546	36-4	14277	41 11-5	25453	39-7	38449	47
14	32-2	70	33-4	1981	17-1	6648	43-8	14434	26-3	25666	63 9-3	38640	46
15	32-5	81	35-2	2035	21-0	6751	51-3	14593	41-3	25880	39-1	38829	45
16	21°32-9	91	22°37-0	2090	25°24-9	6855	30°58-9	14752	41°56-5	26095	64° 9-3	39015	44
17	33-2	103	38-9	2146	28-8	6959	31 6-5	14914	42 11-9	26310	39-7	39199	43
18	33-6	116	40-7	2203	32-8	7065	14-3	15076	27-5	26526	65 10-4	39382	42
19	34-0	129	42-6	2260	36-8	7171	22-1	15238	43-2	26743	41-4	39560	41
20	34-5	143	44-6	2318	40-9	7279	30-0	15401	59-2	26960	66 12-6	39736	40
21	21°35-0	158	22°46-5	2377	25°45-0	7387	31°38-0	15566	43°15-3	27178	66°44-2	39910	39
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23	35-9	189	50-6	2498	53-4	7606	54-3	15899	48-2	27615	48-1	40248	37
24	36-5	207	52-6	2559	57-7	7717	32 2-6	16067	44 4-9	27835	68 20-4	40413	36
25	37-0	224	54-7	2621	26 2-0	7829	11-0	16235	21-9	28054	53-0	40574	35
26	21°37-6	243	22°56-8	2684	26° 6-4	7941	32°19-5	16405	44°39-0	28274	69°25-9	40732	34
27	38-2	261	58-9	2748	10-8	8055	28-0	16575	56-4	28495	59-1	40887	33
28	38-8	281	23 1-1	2813	15-2	8169	36-7	16747	45 13-9	28716	70 32-5	41039	32
29	39-4	301	3-3	2878	19-7	8284	45-5	16919	31-7	28938	71 6-1	41186	31
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32	41-5	368	10-0	3078	33-6	8635	12-4	17443	26-3	29605	48-5	41606	28
33	42-2	391	12-4	3147	38-3	8754	21-6	17620	45-0	29828	73 23-1	41740	27
34	43-0	414	14-7	3216	43-0	8874	30-8	17797	47 3-9	30050	58-0	41869	26
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43	50-9	664	37-3	3874	28-4	9994	59-3	19439	50 4-3	32064	79 20-7	42837	17
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55	4-5	1089	11-7	4853	36-2	11604	12-6	21749	36-6	34721	49-8	43526	5
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	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 II		1 II		2 II		3 II		4 II		5 II		
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1	45-0	0	28-0	1336	47-4	5366	32-4	12402	48-0	22813	27-3	35696	59
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3	45-1	3	30-9	1426	54-1	5550	45-5	12693	13-9	23218	58 19-6	36110	57
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6	21°45-4	12	22°35-5	1566	25° 4-4	5832	30° 5-8	13137	39°54-0	23830	59°40-0	36721	54
7	45-6	17	37-1	1614	8-1	5927	12-6	13287	40 7-6	24036	60 7-4	36921	53
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19	49-1	129	58-3	2252	54-0	7142	41-6	15162	43 5-1	26561	57-7	39175	41
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26	21°52-6	241	23°12-6	2674	26°23-7	7908	32°39-3	16320	45° 0-9	28075	69°40-3	40322	34
27	53-2	260	14-7	2738	28-2	8021	47-9	16489	18-3	28292	70 13-1	40472	33
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29	54-5	300	19-1	2867	37-2	8250	33 5-5	16831	53-6	28729	71 19-5	40766	31
30	55-2	322	21-4	2933	41-8	8365	14-4	17003	46 11-6	28949	53-0	40906	30
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38	1-4	516	40-5	3487	20-4	9322	29-4	18416	43-4	30709	76 29-5	41896	22
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42	5-1	631	50-8	3783	41-1	9823	35 9-6	19146	50 4-9	31591	52-5	42291	18
43	6-1	662	53-4	3859	46-4	9950	19-9	19331	25-8	31811	79 28-6	42378	17
44	7-1	693	56-1	3936	51-7	10078	30-4	19516	47-0	32032	80 4-9	42460	16
45	8-1	725	58-9	4014	57-1	10207	40-9	19703	51 8-5	32252	41-4	42538	15
46	22° 9-2	758	24° 1-6	4092	28° 2-6	10338	35°51-6	19890	51°30-2	32471	81°18-0	42612	14
47	10-3	791	4-4	4171	8-1	10469	36 2-5	20079	52-2	32690	54-7	42680	13
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49	12-5	860	10-1	4332	19-4	10734	24-5	20459	36-9	33127	83 8-6	42802	11
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51	22°14-8	932	24°16-0	4496	28°30-9	11002	36°47-0	20842	53°22-6	33563	84 22-8	42905	9
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53	17-2	1007	22-0	4664	42-7	11275	37 10-1	21229	54 9-4	33996	37-4	42987	7
54	18-5	1046	25-0	4749	48-7	11412	21-8	21424	33-2	34212	86 14-8	43021	6
55	19-8	1085	28-1	4834	54-7	11551	33-7	21620	57-3	34427	52-2	43049	5
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57	22-4	1166	34-4	5008	7-0	11831	57-9	22015	46-2	34854	88 7-3	43091	3
58	23-8	1207	37-6	5096	13-2	11972	38 10-2	22213	56 11-1	35066	44-8	43104	2
59	25-1	1250	40-8	5185	19-6	12114	22-6	22412	36-2	35277	89 22-4	43112	1
60	26-5	1292	44-1	5275	25-9	12258	35-2	22612	57 1-6	35487	90 0-0	43114	0
	11 II	10 II	9 II	8 II	7 II	6 II	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	22° 0'0	0	22°41'9	1288	25° 0'6	5254	29°44'6	12200	38°56'4	22473	57°21'4	35176	60
1	0'0	0	43'3	1332	4'0	5345	51'1	12343	39 9'2	22672	46'9	35381	59
2	0'0	1	44'8	1376	7'3	5436	57'6	12487	22'1	22872	58 12'8	35586	58
3	0'1	3	46'3	1421	10'7	5528	30 4'3	12633	35'2	23073	38'9	35787	57
4	0'2	6	47'8	1467	14'2	5620	11'0	12779	48'4	23274	59 5'3	35988	56
5	0'3	9	49'4	1513	17'7	5714	17'8	12926	40 1'8	23476	31'9	36189	55
6	22° 0'4	13	22°51'0	1560	25°21'2	5808	30°24'6	13074	40°15'3	23680	59°58'8	36387	54
7	0'6	17	52'6	1609	24'8	5904	31'6	13223	29'0	23883	60 26'0	36584	53
8	0'7	23	54'2	1658	28'4	6000	38'6	13373	42'9	24087	53'5	36779	52
9	0'9	29	55'9	1707	32'1	6097	45'7	13524	56'9	24292	61 21'3	36973	51
10	1'1	36	57'5	1757	35'8	6195	52'9	13676	41 11'1	24498	49'3	37165	50
11	22° 1'4	43	22°59'3	1808	25°39'6	6293	31° 0'1	13829	41°25'5	24705	62°17'6	37353	49
12	1'6	51	23 1'0	1860	43'3	6393	7'4	13982	40'0	24912	46'2	37541	48
13	1'9	60	2'8	1913	47'2	6493	14'8	14137	54'7	25120	63 15'0	37726	47
14	2'2	70	4'6	1966	51'0	6593	22'3	14293	42 9'6	25328	44'2	37910	46
15	2'6	80	6'4	2020	55'0	6696	29'9	14449	24'7	25537	64 13'5	38091	45
16	22° 2'9	91	23° 8'2	2075	25°58'9	6799	31°37'6	14606	42°39'9	25746	64°43'2	38272	44
17	3'3	103	10'1	2130	26 2'9	6902	45'3	14765	55'3	25957	65 13'1	38447	43
18	3'7	115	12'0	2187	7'0	7007	53'2	14925	43 10'9	26169	43'3	38621	42
19	4'1	128	14'0	2244	11'1	7112	32 1'1	15085	26'7	26380	66 13'8	38793	41
20	4'6	142	15'9	2301	15'2	7219	9'1	15247	42'7	26592	44'5	38961	40
21	22° 5'0	157	23°17'9	2360	26°19'4	7326	32°17'2	15409	43°58'9	26805	67°15'5	39127	39
22	5'5	172	20'0	2420	23'7	7434	25'4	15573	44 15'2	27018	46'8	39290	38
23	6'0	188	22'0	2480	27'9	7543	33'7	15737	31'8	27231	68 18'3	39452	37
24	6'6	205	24'1	2540	32'3	7652	42'0	15902	48'5	27446	50'1	39609	36
25	7'1	222	26'2	2602	36'7	7763	50'5	16068	45 5'5	27660	69 22'1	39763	35
26	22° 7'7	241	23°28'4	2665	26°41'1	7875	32°59'1	16235	45°22'6	27875	69°54'3	39915	34
27	8'3	259	30'5	2728	45'6	7987	33 7'7	16403	39'9	28090	70 26'8	40063	33
28	9'0	279	32'7	2792	50'1	8100	16'5	16573	57'5	28305	59'6	40207	32
29	9'6	299	35'0	2856	54'7	8214	25'3	16743	46 15'3	28521	71 32'6	40348	31
30	10'3	320	37'2	2922	59'3	8329	34'3	16913	33'2	28738	72 5'8	40486	30
31	22° 11'0	342	23°39'5	2988	27° 4'0	8445	33°43'4	17085	46°51'4	28954	72°39'2	40620	29
32	11'7	365	41'9	3055	8'8	8562	52'5	17258	47 9'8	29171	73 12'9	40752	28
33	12'5	388	44'2	3123	13'5	8680	34 1'8	17432	28'5	29388	46'8	40879	27
34	13'2	412	46'6	3191	18'3	8799	11'2	17607	47'3	29606	74 20'9	41001	26
35	14'0	436	49'0	3261	23'2	8918	20'6	17782	48 6'3	29822	55'2	41120	25
36	22° 14'9	462	23°51'5	3331	27°28'2	9038	34°30'2	17959	48°25'6	30039	75°29'7	41236	24
37	15'7	488	54'0	3402	33'2	9160	39'9	18137	45'1	30257	76 4'4	41347	23
38	16'6	514	56'5	3474	38'2	9282	49'7	18316	49 4'9	30475	39'3	41455	22
39	17'5	542	59'0	3546	43'3	9405	59'6	18495	24'9	30692	77 14'4	41566	21
40	18'4	570	24 1'6	3620	48'5	9529	35 9'6	18675	45'1	30909	49'6	41655	20
41	22° 19'3	599	24° 4'3	3694	27°53'7	9653	35°19'8	18857	50° 5'5	31126	78°25'0	41748	19
42	20'3	629	6'9	3769	59'0	9779	30'1	19039	26'2	31343	79 0'6	41838	18
43	21'3	659	9'6	3844	28 4'3	9906	40'4	19222	47'1	31560	36'4	41924	17
44	22'3	691	12'3	3920	9'7	10033	50'9	19407	51 8'3	31777	80 12'3	42004	16
45	23'3	722	15'0	3998	15'2	10162	36 1'5	19592	29'7	31994	48'3	42081	15
46	22° 24'4	755	24°17'8	4076	28°20'7	10292	36°12'3	19777	51°51'3	32211	81°24'5	42152	14
47	25'5	788	20'7	4155	26'3	10422	23'1	19964	52 13'2	32426	82 0'7	42219	13
48	26'6	822	23'5	4234	31'9	10553	34'1	20152	35'4	32641	37'2	42281	12
49	27'7	857	26'4	4315	37'6	10685	45'2	20340	57'8	32856	83 13'7	42338	11
50	28'9	893	29'3	4396	43'4	10818	56'5	20530	53 20'4	33071	50'3	42390	10
51	22° 30'1	929	24°32'3	4479	28°49'2	10952	37° 7'9	20720	53°43'4	33284	84°27'0	42438	9
52	31'3	966	35'3	4562	55'1	11087	19'4	20911	54 6'5	33498	85 3'8	42481	8
53	32'5	1004	38'3	4645	29 1'0	11223	31'0	21104	30'0	33711	40'6	42519	7
54	33'8	1042	41'4	4730	7'0	11359	42'8	21297	53'7	33923	86 17'6	42552	6
55	35'1	1081	44'5	4815	13'1	11497	54'7	21491	55 17'6	34133	54'6	42579	5
56	22° 36'4	1121	24°47'7	4901	29°19'3	11636	38° 6'8	21685	55°41'8	34344	87°31'6	42602	4
57	37'7	1162	50'9	4988	25'5	11776	19'0	21881	56 6'3	34554	88 8'7	42619	3
58	39'1	1203	54'1	5076	31'8	11916	31'3	22078	31'1	34762	45'8	42633	2
59	40'5	1245	57'3	5165	38'1	12058	43'8	22275	56'1	34969	89 22'9	42640	1
60	41'9	1288	25 0'6	5254	44'6	12200	56'4	22473	57 21'4	35176	90 0'0	42642	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	22°15'0	0	22°57'3	1283	25°17'2	5233	30° 3'1	12142	39°17'4	22334	57°40'9	34866	60
1	15'0	0	58'7	1327	20'5	5323	9'7	12285	30'3	22531	58 6'3	35068	59
2	15'0	1	23 0'2	1371	23'9	5414	16'3	12428	43'2	22729	32'0	35268	58
3	15'1	3	1'7	1416	27'4	5505	23'0	12572	56'3	22928	57'9	35467	57
4	15'2	6	3'3	1461	30'9	5597	29'7	12717	40 9'6	23127	59 24'2	35665	56
5	15'3	9	4'8	1508	34'4	5691	36'6	12863	23'0	23327	50'7	35861	55
6	22°15'4	13	23° 6'4	1555	25°37'9	5785	30°43'5	13010	40°36'6	23528	60°17'4	36056	54
7	15'6	17	8'0	1603	41'6	5879	50'4	13159	50'3	23729	44'4	36248	53
8	15'7	23	9'7	1651	45'2	5975	57'5	13308	41 4'2	23931	61 11'7	36440	52
9	15'9	29	11'4	1701	48'9	6072	31 4'6	13458	18'2	24135	39'3	36630	51
10	16'1	36	13'1	1751	52'6	6169	11'8	13608	32'5	24338	62 7'1	36818	50
11	22°16'4	43	23°14'8	1802	25°56'4	6267	31°19'1	13760	41°46'8	24542	62°35'2	37004	49
12	16'7	51	16'5	1853	26 0'2	6366	26'5	13913	42 1'4	24747	63 3'6	37188	48
13	16'9	60	18'3	1906	4'1	6466	34'0	14067	16'1	24953	32'2	37369	47
14	17'3	69	20'1	1959	8'0	6566	41'5	14221	31'0	25159	64 1'1	37549	46
15	17'6	80	22'0	2012	11'9	6668	49'1	14377	46'1	25366	30'3	37727	45
16	22°17'9	91	23°23'8	2067	26°15'9	6770	31°56'8	14533	43° 1'4	25573	64°59'7	37903	44
17	18'3	102	25'7	2122	20'0	6874	32 4'6	14691	16'8	25781	65 29'4	38075	43
18	18'7	115	27'7	2178	24'0	6978	12'5	14849	32'4	25989	59'4	38245	42
19	19'2	128	29'6	2235	28'2	7083	20'5	15008	48'2	26198	66 29'6	38414	41
20	19'6	142	31'6	2293	32'3	7188	28'5	15169	44 4'2	26408	67 0'1	38579	40
21	22°20'1	156	23°33'6	2351	26°36'6	7295	32°36'7	15330	44°20'3	26618	67°30'8	38742	39
22	20'6	172	35'7	2410	40'8	7402	44'9	15492	36'7	26828	68 1'8	38902	38
23	21'1	188	37'7	2470	45'1	7511	53'2	15655	53'3	27040	33'0	39059	37
24	21'6	204	39'8	2531	49'5	7620	33 1'6	15819	45 10'0	27251	69 4'5	39213	36
25	22'2	222	42'0	2592	53'9	7730	10'1	15984	26'9	27463	36'2	39364	35
26	22°22'8	240	23°44'1	2654	26°58'4	7841	33°18'8	16150	45°44'1	27675	70° 8'1	39512	34
27	23'4	259	46'3	2717	27 2'9	7953	27'5	16317	46 1'4	27887	40'3	39667	33
28	24'0	278	48'5	2781	7'5	8066	36'3	16485	19'0	28100	71 12'8	39799	32
29	24'7	298	50'8	2846	12'1	8179	45'2	16653	36'7	28313	45'4	39936	31
30	25'4	319	53'1	2911	16'7	8294	54'2	16823	54'7	28527	72 18'3	40071	30
31	22°26'1	341	23°55'4	2977	27°21'4	8409	34° 3'3	16993	47°12'9	28740	72°51'4	40202	29
32	26'8	363	57'7	3044	26'2	8525	12'5	17165	31'3	28954	73 24'7	40330	28
33	27'6	387	24 0'1	3111	31'0	8642	21'8	17337	49'9	29168	58'2	40454	27
34	28'4	410	2'5	3179	35'9	8760	31'2	17511	48 8'7	29382	74 32'0	40574	26
35	29'2	435	5'0	3248	40'8	8879	40'7	17685	27'7	29596	75 5'9	40690	25
36	22°30'0	460	24° 7'4	3318	27°45'8	8999	34°50'3	17861	48°47'0	29810	75°40'0	40803	24
37	30'8	486	10'0	3389	50'8	9119	35 0'1	18037	49 6'4	30025	76 14'4	40911	23
38	31'7	513	12'5	3461	55'9	9241	9'9	18214	26'1	30239	48'9	41016	22
39	32'6	540	15'1	3533	28 1'1	9363	19'9	18392	46'1	30454	77 23'6	41116	21
40	33'5	568	17'7	3606	6'3	9486	29'9	18571	50 6'2	30668	58'4	41213	20
41	22°34'5	597	24°20'3	3680	28°11'5	9610	35°40'1	18750	50°26'6	30882	78°33'4	41305	19
42	35'5	627	23'0	3754	16'9	9735	50'4	18931	47'3	31096	79 8'6	41392	18
43	36'5	657	25'7	3830	22'2	9861	36 0'8	19113	51 8'1	31309	44'0	41475	17
44	37'5	688	28'4	3906	27'7	9988	11'4	19295	29'2	31523	80 19'4	41554	16
45	38'5	720	31'2	3983	33'2	10116	22'0	19479	50'6	31736	55'0	41628	15
46	22°39'6	752	24°34'0	4060	28°38'7	10245	36°32'8	19663	52°12'2	31950	81°30'8	41698	14
47	40'7	785	36'9	4139	44'3	10374	43'7	19848	34'0	32162	82 6'6	41763	13
48	41'8	819	39'7	4218	50'0	10505	54'7	20034	56'1	32374	42'6	41824	12
49	43'0	854	42'7	4298	55'7	10636	37 5'9	20221	53 18'4	32586	83 18'7	41880	11
50	44'1	889	45'6	4379	29 1'5	10768	17'2	20409	41'0	32797	54'8	41931	10
51	22°45'3	925	24°48'6	4461	29° 7'4	10902	37°28'6	20598	54° 3'8	33008	84°31'1	41977	9
52	46'6	962	51'6	4544	13'3	11036	40'1	20787	26'9	33217	85 7'4	42019	8
53	47'8	1000	54'7	4627	19'3	11171	51'8	20978	50'2	33426	43'8	42056	7
54	49'1	1038	57'8	4711	25'4	11307	38 3'6	21169	55 13'8	33635	86 20'3	42088	6
55	50'4	1077	25 0'9	4796	31'5	11444	15'6	21361	37'7	33842	56'9	42115	5
56	22°51'7	1117	25° 4'1	4882	29°37'7	11582	38°27'7	21554	56° 1'8	34049	87°33'4	42137	4
57	53'1	1157	7'3	4969	44'0	11720	39'9	21748	26'2	34255	88 10'0	42154	3
58	54'4	1199	10'6	5056	50'3	11860	52'3	21943	50'8	34460	46'7	42166	2
59	55'9	1241	13'8	5144	56'7	12001	39 4'8	22138	57 15'7	34664	89 23'3	42174	1
60	57'3	1283	17'2	5233	30 3'1	12142	17'4	22334	40'9	34866	90 0'0	42176	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H						
0	22°30'0	0 23°12'7	1278	25°33'7	5212	30°21'7	12084	39°38'4	22195	58° 0'1	34559	60
1	30'0	0 14'1	1322	37'1	5301	28'2	12225	51'2	22390	25'3	34756	59
2	30'0	1 15'6	1366	40'5	5392	34'9	12367	40 4'2	22585	50'9	34953	58
3	30'1	3 17'1	1410	44'0	5483	41'6	12511	17'3	22782	59 16'7	35149	57
4	30'2	6 18'7	1456	47'5	5575	48'4	12655	30'6	22979	42'8	35342	56
5	30'3	9 20'3	1502	51'0	5667	55'3	12801	44'0	23177	60 9'1	35535	55
6	22°30'4	13 23°21'9	1549	25°54'6	5761	31° 2'2	12947	40°57'6	23375	60°35'7	35726	54
7	30'6	17 23'5	1597	58'3	5855	9'3	13094	41 11'4	23575	61 2'6	35916	53
8	30'7	23 25'2	1645	26 1'9	5950	16'4	13242	25'3	23775	29'7	36105	52
9	30'9	29 26'8	1694	5'7	6046	23'5	13391	39'4	23976	57'0	36291	51
10	31'2	35 28'6	1744	9'4	6143	30'8	13540	53'6	24177	62 24'7	36474	50
11	22°31'4	43 23°30'3	1795	26°13'2	6241	31°38'1	13691	42° 8'0	24379	62°52'6	36656	49
12	31'7	51 32'1	1846	17'1	6339	45'5	13843	22'6	24582	63 20'8	36836	48
13	32'0	60 33'9	1898	21'0	6439	53'0	13996	37'4	24785	49'2	37015	47
14	32'3	69 35'7	1951	24'9	6539	32 0'6	14150	52'3	24989	64 17'9	37192	46
15	32'6	79 37'6	2005	28'9	6640	8'3	14304	43 7'4	25194	46'8	37366	45
16	22°33'0	91 23°39'4	2059	26°32'9	6742	32°16'0	14459	43°22'6	25399	65°16'0	37538	44
17	33'4	102 41'4	2114	37'0	6845	23'8	14615	38'1	25604	45'5	37707	43
18	33'8	114 43'3	2170	41'1	6949	31'8	14773	53'7	25810	66 15'2	37874	42
19	34'2	127 45'3	2227	45'2	7053	39'8	14931	44 9'5	26017	45'1	38038	41
20	34'6	141 47'3	2284	49'4	7158	47'9	15089	25'5	26224	67 15'3	38200	40
21	22°35'1	156 23°49'3	2342	26°53'7	7264	32°56'1	15250	44°41'6	26432	67°45'8	38360	39
22	35'6	171 51'4	2401	58'0	7371	33 4'3	15411	58'0	26639	68 16'5	38517	38
23	36'1	187 53'4	2461	27 2'3	7479	12'7	15573	45 14'6	26848	47'4	38670	37
24	36'7	204 55'6	2521	6'7	7588	21'2	15735	31'3	27056	69 18'6	38820	36
25	37'3	221 57'7	2582	11'2	7697	29'7	15899	48'3	27265	50'0	38968	35
26	22°37'9	239 23°59'9	2644	27°15'7	7807	33°38'4	16064	46° 5'4	27474	70°21'7	39114	34
27	38'5	258 2'1	2707	20'2	7918	47'1	16230	22'7	27685	53'6	39255	33
28	39'1	277 4'3	2771	24'8	8030	55'9	16396	40'3	27894	71 25'7	39393	32
29	39'8	297 6'6	2835	29'5	8143	34 4'9	16564	58'0	28105	58'0	39528	31
30	40'5	318 8'9	2899	34'2	8257	13'9	16731	47 15'9	28315	72 30'6	39660	30
31	22°41'2	340 24°11'3	2965	27°38'9	8372	34°23'1	16901	47°34'1	28527	73° 3'3	39788	29
32	41'9	362 13'6	3032	43'7	8488	32'3	17072	52'5	28738	36'3	39913	28
33	42'7	385 16'0	3099	48'6	8604	41'7	17243	48 11'0	28949	74 9'5	40034	27
34	43'5	409 18'5	3167	53'5	8721	51'1	17414	29'8	29160	42'9	40152	26
35	44'3	433 20'9	3236	58'4	8839	35 0'7	17587	48'8	29371	75 16'4	40265	25
36	22°45'1	458 24°23'4	3306	28° 3'4	8958	35°10'3	17761	49° 8'1	29582	75°50'2	40374	24
37	46'0	484 25'9	3376	8'5	9079	20'1	17936	27'5	29794	76 24'2	40481	23
38	46'9	511 28'5	3447	13'6	9200	30'0	18112	47'2	30005	58'3	40584	22
39	47'8	538 31'1	3519	18'8	9321	40'0	18288	50 7'1	30216	77 32'6	40681	21
40	48'7	566 33'7	3591	24'1	9444	50'1	18466	27'2	30427	78 7'1	40775	20
41	22°49'7	595 24°36'4	3665	28°29'3	9567	36° 0'3	18644	50°47'5	30638	78°41'7	40865	19
42	50'7	624 39'1	3739	34'7	9691	10'7	18823	51 8'1	30849	79 16'5	40950	18
43	51'7	655 41'8	3815	40'1	9817	21'1	19003	28'9	31060	51'4	41032	17
44	52'7	685 44'6	3891	45'6	9943	31'7	19184	50'0	31270	80 26'4	41108	16
45	53'7	717 47'4	3967	51'1	10070	42'4	19366	52 11'3	31480	81 1'6	41181	15
46	22°54'8	750 24°50'2	4044	28°56'7	10197	36°53'2	19548	52°32'8	31690	81°37'0	41249	14
47	55'9	783 53'1	4122	29 2'4	10327	37 4'2	19732	54'5	31899	82 12'4	41313	13
48	57'1	816 56'0	4201	8'1	10457	15'2	19917	53 16'6	32108	47'9	41371	12
49	58'2	851 58'9	4282	13'8	10587	26'4	20102	38'8	32316	83 23'6	41427	11
50	59'4	886 25 1'9	4362	19'7	10719	37'8	20288	54 1'3	32524	59'3	41476	10
51	23° 0'6	922 25° 4'9	4443	29°25'6	10851	37°49'2	20475	54°24'0	32731	84°35'1	41522	9
52	1'8	959 7'9	4526	31'5	10984	38 0'8	20663	47'0	32937	85 11'0	41561	8
53	3'1	996 11'0	4609	37'6	11119	12'5	20852	55 10'3	33143	47'0	41598	7
54	4'4	1034 14'2	4692	43'7	11254	24'3	21041	33'8	33348	86 23'0	41631	6
55	5'7	1073 17'3	4777	49'8	11390	36'3	21231	57'5	33552	59'1	41656	5
56	23° 7'0	1113 25°20'5	4863	29°56'1	11527	38°48'5	21422	56°21'5	33755	87°35'2	41677	4
57	8'4	1153 23'7	4949	30 2'4	11665	39 0'7	21614	45'8	33958	88 11'4	41694	3
58	9'8	1195 27'0	5036	8'7	11804	13'1	21806	57 10'3	34159	47'6	41707	2
59	11'2	1236 30'3	5123	15'2	11943	25'7	22000	35'0	34359	89 23'8	41714	1
60	12'7	1278 33'7	5212	21'7	12084	38'4	22195	58 0'1	34559	90 0'0	41716	0
	11 H	10 H	9 H	8 H	7 H	6 H	m					

m	0 II		1 II		2 II		3 II		4 II		5 II		
0	22°45-0	0	23°28-0	1274	25°50-2	5191	30°40-1	12025	39°59-1	22055	58°19-0	34252	60
1	45-0	0	29-5	1317	53-6	5280	46-8	12166	40 12-0	22248	44-1	34447	59
2	45-0	1	31-0	1361	57-1	5369	53-5	12307	25-0	22442	59 9-5	34640	58
3	45-1	3	32-5	1405	26 0-6	5460	31 0-2	12450	38-2	22636	35-2	34832	57
4	45-2	6	34-1	1450	4-1	5551	7-0	12593	51-5	22831	60 1-1	35023	56
5	45-3	9	35-7	1496	7-7	5644	14-0	12737	41 4-9	23027	27-3	35211	55
6	22°45-4	13	23°37-3	1543	26°11-3	5737	31°20-9	12883	41°18-6	23224	60°53-7	35399	54
7	45-6	17	39-0	1591	15-0	5831	28-0	13029	32-3	23421	61 20-4	35585	53
8	45-8	22	40-6	1639	18-7	5926	35-2	13176	46-3	23619	47-3	35769	52
9	46-0	28	42-3	1688	22-4	6021	42-4	13324	42 0-4	23818	62 14-5	35952	51
10	46-2	35	44-1	1738	26-2	6118	49-7	13472	14-6	24017	42-0	36133	50
11	22°46-4	42	23°45-8	1788	26°30-0	6215	31°57-0	13622	42°29-1	24217	63° 9-7	36311	49
12	46-7	51	47-6	1839	33-9	6313	32 4-5	13773	43-7	24417	37-6	36488	48
13	47-0	60	49-4	1891	37-8	6412	12-0	13925	58-4	24618	64 5-8	36663	47
14	47-3	69	51-3	1944	41-8	6512	19-6	14077	43 13-3	24820	34-3	36836	46
15	47-6	79	53-1	1997	45-8	6612	27-3	14230	28-4	25022	65 3-0	37007	45
16	22°48-0	90	23°55-0	2051	26°49-8	6713	32°35-1	14385	43°43-7	25224	65°32-0	37175	44
17	48-4	102	57-0	2106	53-9	6815	43-0	14540	59-2	25427	66 1-2	37341	43
18	48-8	114	58-9	2162	58-1	6918	51-0	14696	44 14-8	25631	30-7	37505	42
19	49-2	127	24 0-9	2218	27 2-3	7022	59-0	14853	30-6	25835	67 0-4	37666	41
20	49-7	141	2-9	2276	6-5	7127	33 7-2	15011	46-6	26040	30-3	37825	40
21	22°50-2	155	24° 5-0	2333	27°10-8	7233	33°15-4	15170	45° 2-8	26245	68° 0-5	37980	39
22	50-7	170	7-0	2392	15-1	7339	23-7	15330	19-1	26450	30-9	38134	38
23	51-2	186	9-1	2451	19-5	7446	32-1	15490	35-7	26656	69 1-6	38284	37
24	51-7	203	11-3	2512	23-9	7554	40-6	15652	52-4	26862	32-5	38432	36
25	52-3	220	13-5	2573	28-4	7663	49-2	15815	46 9-4	27068	70 3-6	38576	35
26	22°52-9	238	24°15-7	2634	27°32-9	7773	33°57-9	15978	46°26-5	27275	70°35-0	38718	34
27	53-5	257	17-9	2697	37-5	7884	34 6-7	16142	43-8	27482	71 6-6	38857	33
28	54-2	276	20-1	2760	42-2	7995	15-5	16307	47 1-3	27690	38-4	38992	32
29	54-9	296	22-4	2824	46-8	8108	24-5	16473	19-1	27897	72 10-4	39124	31
30	55-6	317	24-8	2888	51-5	8221	33-6	16640	37-0	28105	42-6	39253	30
31	22°56-3	339	24°27-1	2954	27 56-3	8335	34°42-8	16809	47°55-1	28313	73°15-0	39378	29
32	57-0	361	29-5	3020	28 1-2	8450	52-1	16978	48 13-5	28521	47-7	39501	28
33	57-8	384	31-9	3087	6-0	8566	35 1-5	17147	32-0	28730	74 20-5	39619	27
34	58-6	407	34-4	3155	11-0	8683	11-0	17318	50-8	28938	53-6	39734	26
35	59-4	432	36-8	3223	16-0	8800	20-6	17489	49 9-8	29146	75 26-8	39845	25
36	23° 0-3	457	24°39-4	3293	28°21-0	8918	35°30-3	17662	49°29-0	29354	76° 0-2	39952	24
37	1-1	483	41-9	3363	26-1	9038	40-1	17835	48-4	29563	33-8	40056	23
38	2-0	509	44-5	3433	31-3	9158	50-0	18009	50 8-0	29771	77 7-5	40155	22
39	2-9	536	47-1	3505	36-5	9279	36 0-1	18184	27-8	29979	41-4	40251	21
40	3-9	564	49-8	3578	41-8	9401	10-2	18360	47-9	30187	78 15-5	40343	20
41	23° 4-8	593	24°52-4	3651	28°47-1	9524	36°20-5	18537	51° 8-2	30395	78°49-8	40431	19
42	5-8	622	55-2	3725	52-5	9647	30-8	18714	28-7	30603	79 24-2	40514	18
43	6-8	652	57-9	3800	58-0	9772	41-3	18893	49-5	30810	58-7	40594	17
44	7-9	683	25 0-7	3875	29 3-5	9897	52-0	19073	52 10-5	31018	80 33-3	40669	16
45	8-9	715	3-5	3951	9-0	10023	37 2-7	19253	31-7	31224	81 8-1	40739	15
46	23°10-0	747	25° 6-4	4028	29°14-6	10151	37°13-6	19434	52°53-1	31431	81°43-0	40806	14
47	11-2	780	9-3	4106	20-3	10279	24-5	19616	53 14-8	31637	82 18-0	40868	13
48	12-3	813	12-2	4185	26-1	10408	35-6	19799	36-8	31843	53-2	40926	12
49	13-5	848	15-1	4264	31-9	10538	46-9	19982	58-9	32047	83 28-4	40979	11
50	14-7	883	18-1	4344	37-8	10668	58-2	20167	54 21-3	32252	84 3-6	41028	10
51	23°15-9	919	25°21-2	4426	29°43-7	10800	38° 9-7	20352	54°44-0	32455	84°39-0	41072	9
52	17-1	955	24-3	4507	49-7	10932	21-3	20538	55 6-9	32658	85 14-5	41112	8
53	18-4	993	27-4	4590	55-8	11066	33-1	20725	30-0	32861	50-1	41147	7
54	19-7	1030	30-5	4673	30 1-9	11200	44-9	20913	53-4	33063	86 25-7	41177	6
55	21-0	1069	33-7	4758	8-1	11336	57-0	21101	56 17-0	33263	87 1-3	41202	5
56	23°22-4	1109	25°36-9	4843	30°14-4	11472	39° 9-1	21290	56°40-9	33463	87°37-0	41224	4
57	23-7	1149	40-2	4928	20-7	11609	21-4	21480	57 5-1	33662	88 12-7	41240	3
58	25-1	1190	43-5	5015	27-1	11747	33-8	21671	29-5	33860	48-5	41252	2
59	26-6	1231	46-8	5102	33-6	11885	46-4	21863	54-1	34057	89 24-2	41258	1
60	28-0	1274	50-2	5191	40-1	12025	59-1	22055	58 19-0	34252	90 0-0	41261	0
	11 II	10 II	9 II	8 II	7 II	6 II	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	23° 0-0	0	23° 43-4	1269	26° 6-7	5169	30° 58-6	11966	40° 19-8	21915	58° 37-7	33948	60
1	0-0	0	44-9	1312	10-1	5258	31 5-2	12106	32-7	22106	59 2-7	34139	59
2	0-0	1	46-4	1355	13-6	5347	12-0	12246	45-7	22297	27-9	34329	58
3	0-1	3	47-9	1400	17-1	5437	18-8	12388	58-9	22490	53-4	34517	57
4	0-2	6	49-5	1445	20-7	5528	25-6	12531	41 12-2	22683	60 19-2	34704	56
5	0-3	9	51-1	1491	24-3	5620	32-5	12674	25-7	22877	45-2	34890	55
6	23° 0-4	13	23° 52-8	1537	26° 27-9	5713	31° 39-6	12818	41° 39-4	23072	61° 11-5	35074	54
7	0-6	17	54-4	1585	31-6	5806	46-7	12963	53-2	23267	38-0	35256	53
8	0-8	22	56-1	1633	35-4	5900	53-9	13109	42 7-1	23463	62 4-7	35437	52
9	1-0	28	57-9	1681	39-2	5996	32 1-1	13256	21-2	23659	31-3	35616	51
10	1-2	35	59-6	1731	43-0	6092	8-5	13404	35-5	23856	59-0	35793	50
11	23° 1-4	42	24° 1-3	1781	26° 46-8	6188	32° 15-9	13552	42° 49-9	24054	63° 26-5	35969	49
12	1-7	51	3-1	1832	50-7	6285	23-4	13702	43 4-5	24252	54-2	36142	48
13	2-0	59	5-0	1884	54-7	6384	31-0	13853	19-3	24451	64 22-2	36314	47
14	2-3	68	6-8	1937	58-6	6483	38-6	14004	34-3	24650	50-5	36483	46
15	2-7	79	8-7	1990	27 2-7	6583	46-4	14157	49-4	24850	65 19-0	36651	45
16	23° 3-0	90	24° 10-6	2043	27° 6-8	6684	32° 54-2	14310	44° 4-6	25050	65° 47-7	36817	44
17	3-4	101	12-6	2098	10-9	6786	33 2-1	14464	20-1	25251	66 16-7	36979	43
18	3-8	113	14-5	2154	15-1	6889	10-1	14619	35-7	25452	45-9	37139	42
19	4-3	127	16-5	2210	19-3	6992	18-2	14775	51-5	25653	67 15-4	37297	41
20	4-7	140	18-6	2266	23-6	7096	26-4	14932	45 7-5	25855	45-1	37452	40
21	23° 5-2	155	24° 20-6	2324	27° 27-9	7201	33° 34-6	15089	45° 23-7	26058	68° 15-0	37605	39
22	5-7	170	22-7	2383	32-2	7307	43-0	15248	40-1	26261	45-2	37755	38
23	6-2	186	24-8	2442	36-6	7414	51-4	15407	56-6	26464	69 15-5	37903	37
24	6-8	202	27-0	2502	41-1	7521	34 0-0	15568	46 13-4	26668	46-2	38048	36
25	7-4	219	29-2	2562	45-6	7630	8-6	15729	30-3	26872	70 17-0	38188	35
26	23° 8-0	237	24° 31-4	2624	27° 50-2	7739	34° 17-3	15891	46° 47-4	27076	70° 48-1	38327	34
27	8-6	256	33-7	2686	54-8	7849	26-2	16054	47 4-7	27280	71 19-3	38462	33
28	9-3	275	35-9	2749	59-4	7959	35-1	16218	22-2	27484	50-8	38595	32
29	10-0	295	38-2	2813	28 4-1	8071	44-1	16383	39-9	27690	72 22-5	38724	31
30	10-7	316	40-6	2877	8-9	8184	53-2	16549	57-8	27894	54-4	38850	30
31	23° 11-4	337	24° 43-0	2942	28° 13-8	8298	35° 2-4	16716	48° 15-9	28100	73° 26-5	38973	29
32	12-1	359	45-4	3008	18-6	8412	11-8	16883	34-3	28305	58-9	39092	28
33	12-9	382	47-8	3075	23-5	8527	21-2	17052	52-8	28511	74 31-4	39208	27
34	13-7	405	50-3	3142	28-5	8643	30-7	17221	49 11-5	28715	75 4-0	39319	26
35	14-5	430	52-8	3210	33-5	8760	40-4	17391	30-5	28921	36-9	39428	25
36	23° 15-4	455	24° 55-3	3279	28° 38-6	8878	35° 50-1	17562	49° 49-6	29127	76° 10-0	39534	24
37	16-3	481	57-9	3349	43-7	8997	36 0-0	17734	50 9-0	29333	43-2	39634	23
38	17-2	507	25 0-5	3420	48-9	9116	9-9	17906	28-6	29537	77 16-6	39733	22
39	18-1	534	3-1	3491	54-2	9236	20-0	18080	48-4	29743	50-1	39826	21
40	19-0	562	5-8	3563	59-5	9358	30-2	18255	51 8-4	29948	78 23-8	39915	20
41	23° 20-0	591	25° 8-5	3636	29° 4-8	9480	36° 40-5	18430	51° 28-6	30153	78° 57-7	40001	19
42	21-0	620	11-2	3710	10-3	9602	50-9	18605	49-1	30358	79 31-7	40082	18
43	22-0	650	14-0	3784	15-8	9726	37 1-4	18782	52 9-8	30562	80 5-8	40160	17
44	23-1	681	16-8	3859	21-3	9851	12-1	18960	30-7	30766	40-1	40234	16
45	24-2	712	19-6	3935	26-9	9977	22-9	19139	51-9	30970	81 14-4	40302	15
46	23° 25-3	744	25° 22-5	4012	29° 32-6	10103	37° 33-8	19319	53° 13-3	31173	81° 48-9	40368	14
47	26-4	777	25-4	4090	38-3	10230	44-8	19499	34-9	31376	82 23-6	40428	13
48	27-5	810	28-4	4168	44-1	10359	55-9	19680	56-7	31578	58-3	40483	12
49	28-7	845	31-4	4247	49-9	10488	38 7-2	19862	54 18-8	31780	83 33-1	40536	11
50	29-9	879	34-4	4327	55-8	10618	18-6	20044	41-1	31980	84 8-0	40584	10
51	23° 31-1	915	25° 37-5	4407	30° 1-8	10749	38° 30-1	20228	55° 3-7	32181	84° 42-9	40627	9
52	32-4	952	40-5	4488	7-8	10880	41-7	20413	26-5	32381	85 18-0	40667	8
53	33-7	989	43-7	4571	13-9	11013	53-5	20598	49-5	32580	53-1	40700	7
54	35-0	1026	46-9	4654	20-1	11146	39 5-4	20784	56 12-8	32778	86 28-3	40729	6
55	36-3	1065	50-1	4738	26-4	11281	17-5	20970	36-3	32976	87 3-5	40755	5
56	23° 37-7	1104	25° 53-3	4823	30° 32-7	11416	39° 29-6	21158	57° 0-1	33173	87° 38-7	40776	4
57	39-1	1145	56-6	4908	39-0	11552	42-0	21346	24-1	33368	88 14-0	40793	3
58	40-5	1186	59-9	4994	45-5	11689	54-4	21535	48-4	33562	49-3	40803	2
59	41-9	1227	26 3-3	5081	52-0	11827	40 7-0	21725	58 12-9	33756	89 24-7	40810	1
60	43-4	1269	6-7	5169	58-6	11966	19-8	21915	37-7	33948	90 0-0	40812	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	23°15'0	0	23°58'7	1264	26°23'2	5147	31°17'0	11907	40°40'3	21774	58°56'1	33645	60
1	15'0	0	24 0'2	1307	26'6	5236	23'6	12046	53'2	21964	59 20'9	33833	59
2	15'0	1	1'8	1350	30'1	5325	30'4	12185	41 6'3	22153	46'0	34019	58
3	15'1	3	3'3	1394	33'7	5414	37'3	12326	19'5	22344	60 11'4	34204	57
4	15'2	6	4'9	1439	37'3	5505	44'2	12468	32'8	22535	37'0	34388	56
5	15'3	9	6'5	1485	40'9	5596	51'2	12610	46'3	22727	61 2'8	34570	55
6	23°15'4	13	24° 8'2	1531	26°44'6	5689	31°58'2	12753	42° 0'0	22919	61°28'9	34751	54
7	15'6	17	9'9	1578	48'3	5782	32 5'3	12897	13'8	23113	55'3	34930	53
8	15'8	22	11'6	1626	52'0	5875	12'6	13042	27'8	23306	62 21'8	35107	52
9	16'0	28	13'3	1675	55'8	5970	19'9	13188	41'9	23500	48'7	35284	51
10	16'2	35	15'0	1724	59'7	6065	27'2	13335	56'2	23695	63 15'7	35457	50
11	23°16'4	42	24°16'8	1774	27° 3'6	6162	32°34'7	13483	43°10'6	23891	63°43'0	35629	49
12	16'7	50	18'6	1825	7'5	6259	42'2	13632	25'3	24086	64 10'6	35800	48
13	17'0	59	20'5	1877	11'5	6357	49'8	13781	40'0	24283	38'4	35968	47
14	17'3	68	22'4	1929	15'5	6455	57'5	13931	55'0	24480	65 6'4	36134	46
15	17'7	79	24'3	1982	19'6	6555	33 5'3	14083	44 10'1	24678	34'7	36298	45
16	23°18'0	89	24°26'2	2035	27°23'7	6655	33°13'2	14235	44°25'4	24875	66° 3'2	36459	44
17	18'4	101	28'2	2090	27'8	6756	21'1	14388	40'9	25074	31'9	36619	43
18	18'9	113	30'2	2145	32'0	6858	29'2	14542	56'5	25273	67 0'9	36776	42
19	19'3	126	32'2	2201	36'3	6961	37'3	14696	45 12'3	25472	30'1	36931	41
20	19'8	140	34'2	2258	40'6	7065	45'5	14852	28'3	25671	59'6	37082	40
21	23°20'2	154	24°36'3	2315	27°44'9	7169	33°53'8	15008	45°44'5	25872	68°29'2	37232	39
22	20'8	169	38'4	2373	49'3	7275	34 2'2	15166	46 0'8	26072	59'1	37379	38
23	21'3	185	40'5	2432	53'8	7381	10'7	15324	17'4	26273	69 29'2	37524	37
24	21'9	201	42'7	2492	58'3	7488	19'3	15483	34'1	26474	59'6	37665	36
25	22'4	218	44'9	2552	28 2'8	7595	27'9	15643	51'0	26675	70 30'1	37804	35
26	23°23'1	236	24°47'1	2612	28° 7'4	7704	34°36'7	15804	47° 8'1	26876	71° 0'9	37939	34
27	23'7	255	49'4	2675	12'0	7814	45'6	15966	25'4	27078	31'9	38072	33
28	24'4	274	51'7	2738	16'7	7924	54'5	16129	42'9	27280	72 3'1	38201	32
29	25'0	294	54'0	2801	21'4	8035	35 3'6	16292	48 0'6	27483	34'5	38328	31
30	25'7	315	56'4	2865	26'2	8147	12'8	16457	18'5	27685	73 6'0	38451	30
31	23°26'5	336	24°58'8	2930	28°31'1	8260	35°22'0	16622	48°36'6	27887	73°37'8	38572	29
32	27'2	358	25 1'2	2996	36'0	8374	31'4	16788	54'9	28090	74 9'8	38688	28
33	28'0	381	3'7	3063	40'9	8488	40'8	16955	49 13'3	28292	42'0	38801	27
34	28'8	404	6'2	3130	45'9	8604	50'4	17123	32'0	28495	75 14'3	38911	26
35	29'7	428	8'7	3198	51'0	8720	36 0'1	17292	50'9	28698	46'9	39017	25
36	23°30'5	453	25°11'2	3266	28°56'1	8837	36° 9'9	17461	50°10'1	28900	76°19'5	39120	24
37	31'4	479	13'8	3336	29 1'3	8955	19'8	17632	29'4	29103	52'4	39218	23
38	32'3	505	16'4	3406	6'5	9074	29'8	17803	48'9	29305	77 25'4	39314	22
39	33'2	532	19'1	3477	11'8	9194	39'9	17975	51 8'7	29508	58'6	39405	21
40	34'2	560	21'8	3549	17'1	9314	50'1	18148	28'7	29709	78 32'0	39493	20
41	23°35'2	588	25°24'5	3621	29°22'5	9436	37° 0'4	18322	51°48'8	29911	79° 5'4	39576	19
42	36'2	617	27'3	3695	28'0	9558	10'9	18497	52 9'3	30113	39'0	39656	18
43	37'2	647	30'1	3769	33'5	9681	21'4	18672	29'9	30314	80 12'8	39732	17
44	38'3	678	32'9	3844	39'1	9805	32'1	18848	50'7	30515	46'7	39803	16
45	39'4	709	35'7	3919	44'7	9930	42'9	19025	53 11'8	30715	81 20'7	39871	15
46	23°40'5	741	25°38'6	3996	29°50'4	10055	37°53'9	19203	53°33'1	30916	81°54'8	39934	14
47	41'6	774	41'6	4073	56'2	10182	38 4'9	19382	54'7	31115	82 29'0	39994	13
48	42'8	807	44'6	4151	30 2'0	10309	16'1	19561	54 16'5	31315	83 3'3	40048	12
49	44'0	841	47'6	4230	7'9	10438	27'4	19742	38'5	31513	37'7	40100	11
50	45'2	876	50'6	4309	13'8	10567	38'8	19923	55 0'7	31711	84 12'2	40145	10
51	23°46'4	912	25°53'7	4389	30°19'8	10697	38°50'3	20104	55°23'1	31908	84°46'7	40188	9
52	47'7	948	56'8	4470	25'9	10827	39 2'0	20287	45'9	32105	85 21'4	40226	8
53	49'0	985	26 0'0	4552	32'1	10959	13'8	20470	56 8'8	32301	56'0	40259	7
54	50'3	1023	3'2	4635	38'3	11092	25'8	20654	32'0	32496	86 30'8	40288	6
55	51'6	1061	6'4	4718	44'6	11226	37'8	20839	55'4	32690	87 5'6	40312	5
56	23°53'0	1100	26° 9'7	4803	30°50'9	11360	39°50'0	21025	57°19'0	32883	87°40'4	40332	4
57	54'4	1140	13'0	4888	57'3	11496	40 2'4	21211	42'9	33075	88 15'3	40348	3
58	55'8	1181	16'3	4973	31 3'8	11632	14'9	21398	58 7'1	33266	50'2	40359	2
59	57'3	1222	19'7	5060	10'3	11769	27'5	21586	31'5	33456	89 25'1	40366	1
60	58'7	1264	23'2	5147	17'0	11907	40'3	21774	56'1	33645	90 0'0	40368	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 II	1 II	2 II	3 II	4 II	5 II							
0	23°30'0	0	24°14'1	1259	26°39'6	5126	31°35'3	11847	41° 0'7	21634	59°14'2	33344	60
1	30'0	0	15'6	1302	43'1	5213	42'0	11985	13'6	21821	38'9	33529	59
2	30'0	1	17'2	1345	46'6	5302	48'8	12124	26'7	22008	60 3'9	33712	58
3	30'1	3	18'7	1389	50'2	5391	55'7	12264	39'9	22197	29'1	33894	57
4	30'2	6	20'3	1434	53'8	5481	32 2'6	12405	53'3	22386	54'6	34074	56
5	30'3	9	22'0	1479	57'5	5572	9'7	12546	42 6'9	22576	61 20'2	34253	55
6	23°30'4	12	24°23'6	1525	27° 1'2	5664	32°16'8	12688	42°20'5	22767	61°46'1	34430	54
7	30'6	17	25'3	1572	4'9	5757	23'9	12831	34'3	22958	62 12'3	34606	53
8	30'8	22	27'0	1620	8'7	5850	31'2	12975	48'3	23150	38'7	34780	52
9	31'0	28	28'8	1668	12'5	5944	38'5	13120	43 2'4	23342	63 5'3	34952	51
10	31'2	35	30'5	1717	16'4	6039	45'9	13266	16'7	23534	32'2	35123	50
11	23°31'5	42	24°32'3	1767	27°20'3	6135	32°53'4	13413	43°31'2	23727	63°59'3	35292	49
12	31'7	50	34'2	1818	24'3	6232	33 1'0	13560	45'8	23921	64 26'7	35460	48
13	32'0	59	36'0	1869	28'3	6329	8'6	13709	44 0'6	24114	54'3	35624	47
14	32'3	68	37'9	1921	32'3	6427	16'4	13858	15'6	24310	65 22'1	35787	46
15	32'7	78	39'8	1974	36'4	6526	24'2	14008	30'7	24505	50'1	35947	45
16	23°33'1	89	24°41'8	2027	27°40'6	6626	33°32'1	14159	44°46'0	24701	66°18'4	36106	44
17	33'5	101	43'7	2082	44'8	6727	40'1	14311	45 1'5	24897	46'9	36262	43
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	11 H	10 H	9 H	8 H	7 H	6 H	m

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1	15.0	0	1.7	1286	32.4	5146	36.8	11802	14.0	21392	31.5	32626	59
2	15.0	1	3.3	1329	36.1	5233	43.7	11938	27.1	21574	56.0	32800	58
3	15.1	3	4.9	1373	39.7	5321	50.7	12075	40.4	21757	61 20.7	32972	57
4	15.2	6	6.5	1417	43.4	5410	57.7	12212	53.8	21940	45.7	33143	56
5	15.3	9	8.2	1462	47.1	5499	33 4.9	12351	43 7.4	22124	62 10.9	33312	55
6	24° 15.4	12	25° 9.9	1507	27° 50.9	5590	33° 12.1	12490	43° 21.1	22308	62° 36.3	33480	54
7	15.6	17	11.6	1554	54.7	5681	19.4	12631	35.0	22493	63 2.0	33646	53
8	15.8	22	13.4	1601	58.6	5773	26.7	12772	49.0	22678	27.8	33811	52
9	16.0	28	15.2	1648	28 2.5	5866	34.1	12914	44 3.2	22864	53.9	33974	51
10	16.2	34	17.0	1697	6.4	5959	41.7	13056	17.5	23050	64 20.2	34135	50
11	24° 16.5	42	25° 18.8	1746	28° 10.4	6053	33° 49.3	13200	44° 32.0	23237	64° 46.7	34294	49
12	16.8	49	20.7	1796	14.5	6148	56.9	13344	46.6	23424	65 13.5	34452	48
13	17.1	58	22.6	1847	18.6	6244	34 4.7	13489	45 1.4	23612	40.4	34607	47
14	17.4	67	24.5	1898	22.7	6341	12.5	13636	16.4	23800	66 7.6	34760	46
15	17.8	77	26.5	1950	26.9	6439	20.5	13783	31.5	23988	35.0	34912	45
16	24° 18.1	88	25° 28.5	2003	28° 31.1	6537	34° 28.5	13930	45° 46.8	24177	67° 2.6	35062	44
17	18.5	99	30.5	2057	35.3	6636	36.6	14079	46 2.2	24366	30.4	35209	43
18	19.0	111	32.5	2111	39.7	6736	44.7	14228	17.9	24556	58.5	35354	42
19	19.4	124	34.6	2166	44.0	6837	53.0	14378	33.7	24746	68 26.7	35497	41
20	19.9	138	36.7	2222	48.4	6938	35 1.4	14529	49.6	24936	55.1	35637	40
21	24° 20.4	152	25° 38.9	2278	28° 52.9	7040	35° 9.8	14681	47° 5.7	25126	69° 23.8	35775	39
22	20.9	166	41.0	2335	57.4	7143	18.4	14834	22.1	25316	52.7	35910	38
23	21.5	182	43.2	2393	29 2.0	7247	27.0	14988	38.6	25508	70 21.7	36043	37
24	22.1	198	45.5	2451	6.6	7352	35.7	15142	55.2	25699	51.0	36173	36
25	22.7	215	47.8	2511	11.2	7458	44.5	15297	48 12.1	25890	71 20.4	36301	35
26	24° 23.3	233	25° 50.1	2571	29° 15.9	7564	35° 53.4	15453	48° 29.1	26081	71° 50.0	36425	34
27	24.0	251	52.4	2632	20.7	7671	36 2.4	15610	46.3	26273	72 19.9	36547	33
28	24.7	270	54.8	2693	25.5	7779	11.5	15767	49 3.7	26464	49.9	36666	32
29	25.4	289	57.2	2756	30.4	7888	20.7	15926	21.3	26656	73 20.1	36782	31
30	26.1	310	59.6	2819	35.3	7997	30.0	16085	39.1	26848	50.4	36895	30
31	24° 26.8	331	26° 2.0	2883	29° 40.2	8107	36° 39.4	16245	49° 57.0	27040	74° 21.0	37005	29
32	27.6	352	4.5	2947	45.3	8219	48.9	16406	50 15.2	27231	51.7	37112	28
33	28.4	375	7.1	3012	50.3	8331	58.5	16567	33.5	27423	75 22.6	37216	27
34	29.2	398	9.6	3078	55.5	8443	37 8.2	16729	52.1	27615	53.6	37316	26
35	30.1	422	12.2	3145	30 0.7	8557	18.0	16893	51 10.8	27806	76 24.8	37412	25
36	24° 31.0	446	26° 14.9	3213	30° 5.9	8672	37° 28.0	17057	51° 29.8	27998	76° 56.2	37506	24
37	31.9	472	17.5	3281	11.2	8787	38.0	17221	48.9	28189	77 27.7	37597	23
38	32.9	497	20.2	3350	16.6	8903	48.1	17387	52 8.2	28380	59.3	37683	22
39	33.8	524	23.0	3420	22.0	9020	58.3	17553	27.8	28571	78 31.1	37767	21
40	34.8	551	25.7	3490	27.4	9138	38 8.7	17720	47.5	28761	79 3.0	37848	20
41	24° 35.8	579	26° 28.5	3561	30° 33.0	9256	38° 19.1	17888	53° 7.5	28951	79° 35.0	37924	19
42	36.9	608	51.4	3633	38.6	9375	29.7	18056	27.6	29141	80 7.2	37996	18
43	37.9	637	34.3	3706	44.2	9496	40.4	18225	48.0	29331	39.5	38065	17
44	39.0	667	37.2	3780	49.9	9617	51.2	18395	54 8.6	29520	81 11.8	38131	16
45	40.1	698	40.1	3854	55.7	9738	39 2.2	18566	29.4	29709	44.3	38193	15
46	24° 41.3	730	26° 43.1	3929	31° 1.5	9861	39° 13.2	18738	54° 50.4	29897	82° 16.9	38251	14
47	42.5	762	46.1	4005	7.4	9985	24.3	18910	55 11.6	30084	49.6	38304	13
48	43.7	795	49.2	4081	13.3	10109	35.6	19083	33.0	30271	83 22.4	38354	12
49	44.9	822	52.3	4158	19.4	10234	47.0	19256	54.7	30458	55.2	38401	11
50	46.1	863	55.4	4236	25.5	10360	58.6	19431	56 16.5	30644	84 28.2	38443	10
51	24° 47.4	897	26 58.6	4315	31° 31.6	10487	40° 10.2	19606	56° 38.6	30828	85° 1.2	38481	9
52	48.7	933	27 1.8	4395	37.8	10615	22.0	19781	57 0.9	31012	34.2	38516	8
53	50.0	970	5.0	4475	44.1	10744	33.9	19958	23.4	31195	86 7.2	38546	7
54	51.4	1007	8.3	4556	50.4	10873	46.0	20135	46.1	31378	40.4	38573	6
55	52.8	1045	11.7	4638	56.8	11003	58.1	20313	58 9.1	31559	87 13.6	38594	5
56	24° 54.2	1083	27° 15.0	4721	32° 3.3	11134	41° 10.4	20491	58° 32.3	31739	87° 46.9	38613	4
57	55.6	1122	18.4	4804	9.9	11266	22.9	20670	55.7	31919	88 20.1	38627	3
58	57.1	1162	21.9	4888	16.5	11399	35.4	20850	59 19.3	32097	53.4	38638	2
59	58.6	1203	25.4	4973	23.2	11532	48.2	21030	43.1	32275	89 26.7	38643	1
60	25 0.1	1244	28.9	5059	30.0	11667	42 1.0	21211	60 7.2	32451	90 0.0	38646	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	24°30'0	0	25°15'5	1239	27°45'3	5037	32°48'1	11605	42°20'9	21069	60°24'4	32157	60
1	30'0	0	17'0	1281	48'9	5123	55'0	11740	33'9	21249	48'5	32329	59
2	30'0	1	18'6	1323	52'5	5210	33 1'9	11875	47'0	21429	61 12'9	32499	58
3	30'1	3	20'3	1367	56'2	5297	8'9	12011	43 0'3	21610	37'5	32668	57
4	30'2	6	21'9	1411	59'9	5385	16'0	12147	13'7	21791	62 2'3	32837	56
5	30'3	9	23'6	1456	28 3'6	5475	23'2	12285	27'3	21973	27'3	33003	55
6	24°30'4	12	25°25'3	1501	28° 7'4	5565	33°30'4	12424	43°41'0	22155	62°52'6	33168	54
7	30'6	17	27'0	1547	11'3	5655	37'7	12563	54'9	22338	63 18'0	33331	53
8	30'8	22	28'8	1594	15'2	5747	45'1	12703	44 8'9	22521	43'7	33492	52
9	31'0	28	30'6	1642	19'1	5839	52'6	12844	23'1	22705	64 9'6	33652	51
10	31'2	34	32'4	1690	23'1	5932	34 0'1	12986	37'4	22889	35'7	33810	50
11	24°31'5	41	25°34'3	1739	28°27'1	6026	34° 7'8	13128	44°51'9	23073	65° 2'1	33967	49
12	31'8	49	36'2	1789	31'2	6120	15'4	13272	45 6'6	23258	28'6	34122	48
13	32'1	58	38'1	1839	35'3	6216	23'3	13416	21'4	23444	55'3	34274	47
14	32'4	67	40'0	1890	39'4	6312	31'1	13561	36'3	23630	66 22'3	34425	46
15	32'8	77	42'0	1942	43'6	6409	39'1	13707	51'4	23816	49'5	34573	45
16	24°33'2	87	25°44'0	1995	28°47'9	6507	34°47'1	13853	46° 6'7	24002	67°16'9	34719	44
17	33'6	99	46'0	2048	52'2	6605	55'3	14001	22'2	24189	44'5	34864	43
18	34'0	111	48'1	2102	56'5	6705	35 3'5	14149	37'8	24376	68 12'3	35007	42
19	34'5	124	50'2	2157	29 0'9	6805	11'8	14298	53'6	24564	40'3	35147	41
20	35'0	137	52'3	2212	5'3	6906	20'2	14448	47 9'5	24752	69 8'5	35284	40
21	24°35'5	151	25°54'5	2268	29° 9'8	7008	35°28'6	14599	47°25'6	24940	69°36'9	35418	39
22	36'0	166	56'7	2325	14'4	7110	37'2	14750	41'9	25128	70 5'5	35551	38
23	36'6	181	58'9	2383	18'9	7213	45'9	14902	58'4	25316	34'3	35681	37
24	37'1	198	26 1'2	2442	23'6	7317	54'6	15055	48 15'1	25505	71 3'3	35808	36
25	37'7	214	3'4	2501	28'3	7422	36 3'5	15210	31'9	25694	32'4	35933	35
26	24°38'4	232	26° 5'8	2561	29°33'0	7528	36°12'4	15365	48°48'9	25883	72° 1'8	36055	34
27	39'0	250	8'1	2621	37'8	7635	21'4	15520	49 6'1	26072	31'4	36175	33
28	39'7	269	10'5	2682	42'6	7742	30'6	15676	23'5	26261	73 1'1	36291	32
29	40'4	288	12'9	2744	47'5	7850	39'8	15833	41'0	26450	31'0	36405	31
30	41'2	309	15'4	2807	52'5	7959	49'1	15991	58'7	26639	74 1'1	36516	30
31	24°41'9	329	26°17'8	2871	29°57'5	8069	36°58'6	16150	50°16'7	26829	74°31'3	36623	29
32	42'7	351	20'4	2935	30 2'5	8180	37 8'1	16309	34'8	27018	75 1'7	36728	28
33	43'5	373	22'9	3000	7'6	8291	17'7	16469	53'1	27207	32'3	36829	27
34	44'4	397	25'5	3065	12'8	8403	27'5	16630	51 11'6	27396	76 3'0	36927	26
35	45'3	420	28'1	3132	18'0	8516	37'3	16792	30'3	27585	33'9	37022	25
36	24°46'2	444	26°30'8	3199	30'23'3	8629	37°47'2	16954	51°49'2	27774	77° 4'9	37113	24
37	47'1	470	33'4	3267	28'6	8744	57'3	17118	52 8'3	27962	36'1	37202	23
38	48'0	496	36'2	3336	34'0	8859	38 7'5	17282	27'6	28150	78 7'4	37286	22
39	49'0	522	38'9	3405	39'4	8976	17'7	17446	47'2	28338	38'8	37369	21
40	50'0	549	41'7	3475	44'9	9093	28'1	17612	53 6'7	28525	79 10'4	37448	20
41	24°51'0	577	26°44'5	3546	30°50'5	9211	38°38'6	17778	53°26'6	28713	79°42'1	37522	19
42	52'0	605	47'4	3618	56'1	9330	49'2	17945	46'7	28900	80 13'9	37593	18
43	53'1	635	50'3	3690	31 1'8	9449	59'9	18113	54 7'0	29087	45'8	37661	17
44	54'2	665	53'2	3763	7'5	9569	39 10'7	18281	27'5	29274	81 17'8	37724	16
45	55'3	695	56'2	3837	13'3	9690	21'7	18451	48'2	29459	50'0	37785	15
46	24°56'5	727	26°59'2	3912	31°19'2	9812	39°32'8	18621	55° 9'1	29644	82°22'2	37841	14
47	57'7	759	27 2'2	3987	25'1	9935	43'9	18791	30'2	29829	54'5	37894	13
48	58'9	792	5'3	4063	31'1	10058	55'3	18962	51'6	30013	83 26'9	37942	12
49	25 0'1	825	8'4	4140	37'1	10183	40 6'7	19134	56 13'1	30196	59'4	37988	11
50	1'4	859	11'6	4218	43'3	10308	18'2	19307	34'9	30379	84 32'0	38029	10
51	25° 2'7	894	27°14'8	4296	31°49'4	10434	40°29'9	19480	56°56'9	30561	85° 4'6	38066	9
52	4'0	929	18'0	4375	55'7	10561	41'7	19654	57 19'1	30742	37'3	38100	8
53	5'3	966	21'3	4455	32 2'0	10689	53'6	19829	41'5	30922	86 10'0	38130	7
54	6'7	1003	24'6	4536	8'4	10817	41 5'7	20004	58 4'1	31102	42'8	38155	6
55	8'1	1040	27'9	4618	14'8	10947	17'9	20180	26'9	31280	87 15'6	38177	5
56	25° 9'5	1079	27°31'3	4700	32°21'3	11077	41°30'3	20357	58°50'0	31458	87°48'4	38195	4
57	11'0	1118	34'8	4783	27'9	11208	42'7	20534	59 13'3	31634	88 21'3	38210	3
58	12'4	1158	38'2	4867	34'6	11340	55'3	20712	36'8	31810	54'2	38219	2
59	13'9	1198	41'7	4951	41'3	11472	42 8'0	20890	60 0'5	31984	89 27'1	38225	1
60	15'5	1239	45'3	5037	48'1	11605	20'9	21069	24'4	32157	90 0'0	38227	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	24°45.0	0	25°30.8	1234	28° 1.6	5014	33° 6.2	11545	42°40.6	20928	60°41.3	31864	60
1	45.0	0	32.4	1276	5.3	5100	13.1	11678	53.6	21105	61 5.4	32033	59
2	45.0	1	34.0	1318	8.9	5186	20.0	11812	43 6.8	21283	29.6	32201	58
3	45.1	3	35.6	1361	12.6	5273	27.1	11947	20.1	21462	54.0	32367	57
4	45.2	5	37.3	1405	16.3	5361	34.2	12083	33.5	21642	62 18.6	32532	56
5	45.3	9	39.0	1450	20.1	5450	41.4	12220	47.1	21822	43.5	32695	55
6	24°45.5	12	25°40.7	1495	28°24.0	5539	33°48.7	12357	44° 0.8	22002	63° 8.6	32857	54
7	45.6	17	42.5	1541	27.8	5629	56.0	12495	14.7	22182	33.9	33017	53
8	45.8	22	44.2	1587	31.7	5720	34 3.4	12634	28.7	22363	59.4	33176	52
9	46.0	28	46.0	1635	35.7	5812	10.9	12774	42.9	22545	64 25.1	33333	51
10	46.2	34	47.9	1683	39.7	5905	18.5	12915	57.2	22727	51.0	33489	50
11	24°46.5	41	25°49.8	1732	28°43.7	5998	34°26.2	13056	45°11.7	22910	65°17.1	33642	49
12	46.8	49	51.7	1781	47.8	6092	33.9	13199	26.4	23093	43.5	33793	48
13	47.1	58	53.6	1831	52.0	6187	41.7	13342	41.2	23276	66 10.0	33943	47
14	47.4	67	55.5	1882	56.2	6283	49.7	13486	56.1	23460	36.8	34091	46
15	47.8	77	57.5	1934	29 0.4	6379	57.7	13630	46 11.2	23644	67 3.8	34236	45
16	24°48.2	87	25°59.5	1986	29° 4.6	6477	35° 5.7	13776	46°26.5	23828	67°30.9	34380	44
17	48.6	99	26 1.6	2039	9.0	6575	13.9	13922	41.9	24013	58.3	34522	43
18	49.0	110	3.7	2093	13.3	6673	22.1	14069	57.5	24198	68 25.9	34661	42
19	49.5	123	5.8	2148	17.7	6773	30.4	14217	47 13.3	24383	53.6	34798	41
20	50.0	137	7.9	2203	22.2	6873	38.9	14366	29.3	24568	69 21.8	34933	40
21	24°50.5	151	26°10.1	2259	29°26.7	6975	35°47.4	14516	47°45.4	24754	69°49.8	35065	39
22	51.0	165	12.3	2316	31.3	7077	56.0	14666	48 1.6	24940	70 18.1	35195	38
23	51.6	181	14.6	2373	35.9	7179	36 4.7	14817	18.1	25126	46.6	35322	37
24	52.2	197	16.8	2431	40.6	7283	13.5	14969	34.7	25312	71 15.4	35447	36
25	52.8	213	19.1	2490	45.3	7387	22.3	15122	51.5	25498	44.3	35569	35
26	24°53.4	231	26°21.5	2550	29°50.0	7492	36°31.3	15275	49° 8.5	25685	72°13.4	35689	34
27	54.1	249	23.8	2610	54.9	7598	40.4	15429	25.7	25872	42.6	35806	33
28	54.8	268	26.2	2671	59.7	7705	49.5	15584	43.0	26058	73 12.1	35920	32
29	55.5	287	28.7	2733	30 4.7	7812	58.8	15740	50 0.5	26245	41.7	36031	31
30	56.3	307	31.1	2795	9.6	7921	37 8.2	15897	18.2	26432	74 11.5	36139	30
31	24°57.0	328	26°33.6	2858	30°14.6	8030	37°17.6	16054	50°36.1	26618	74°41.4	36245	29
32	57.8	350	36.2	2922	19.7	8140	27.2	16212	54.2	26805	75 11.5	36347	28
33	58.6	372	38.7	2987	24.9	8250	36.8	16371	51 12.5	26991	41.8	36446	27
34	59.5	395	41.3	3052	30.0	8362	46.6	16531	30.9	27178	76 12.2	36543	26
35	25 0.4	418	44.0	3118	35.3	8474	56.5	16691	49.6	27364	42.8	36636	25
36	25° 1.3	443	26°46.6	3185	30°40.6	8587	38° 6.5	16852	52° 8.4	27550	77°13.5	36725	24
37	2.2	468	49.3	3253	46.0	8701	16.5	17014	27.4	27736	44.3	36812	23
38	3.1	493	52.1	3321	51.4	8816	26.7	17177	46.6	27921	78 15.3	36895	22
39	4.1	520	54.8	3390	56.8	8931	37.0	17340	53 6.1	28106	46.4	36975	21
40	5.1	547	57.6	3460	31 2.4	9048	47.4	17504	25.7	28291	79 17.7	37051	20
41	25° 6.1	575	27° 0.5	3531	31° 8.0	9165	38°57.9	17669	53°45.5	28476	79°49.0	37124	19
42	7.2	603	3.4	3602	13.6	9283	39 8.6	17834	54 5.5	28660	80 20.5	37194	18
43	8.3	632	6.3	3674	19.3	9401	19.3	18000	25.8	28844	52.1	37260	17
44	9.4	662	9.2	3747	25.1	9521	30.2	18167	46.2	29028	81 23.7	37322	16
45	10.5	693	12.2	3820	30.9	9641	41.1	18335	55 6.8	29211	55.5	37381	15
46	25°11.7	724	27°15.3	3895	31°36.8	9763	39°52.2	18503	55°27.7	29393	82°27.3	37436	14
47	12.9	756	18.3	3970	42.8	9885	40 3.4	18672	48.7	29575	59.3	37488	13
48	14.1	788	21.4	4046	48.8	10007	14.8	18842	56 9.9	29756	83 31.4	37536	12
49	15.3	822	24.6	4122	54.9	10131	26.2	19012	31.4	29936	84 3.5	37580	11
50	16.6	856	27.7	4199	32 1.0	10256	37.8	19183	53.1	30116	35.7	37620	10
51	25°17.9	890	27°30.9	4277	32° 7.2	10381	40°49.5	19355	57°14.9	30295	85° 7.9	37657	9
52	19.2	926	34.2	4356	13.5	10507	41 1.3	19527	37.0	30473	40.2	37690	8
53	20.6	962	37.5	4436	19.9	10634	13.3	19700	59.3	30650	86 12.6	37719	7
54	22.0	999	40.8	4516	26.3	10761	25.3	19874	58 21.8	30827	45.0	37744	6
55	23.4	1036	44.2	4597	32.7	10890	37.5	20048	44.5	31002	87 17.4	37765	5
56	25°24.8	1074	27°47.6	4679	32°39.3	11019	41°49.9	20223	59° 7.5	31177	87°49.9	37783	4
57	26.3	1113	51.1	4762	45.9	11149	42 2.4	20398	30.6	31351	88 22.4	37797	3
58	27.8	1153	54.6	4845	52.6	11280	15.0	20574	54.0	31523	54.9	37806	2
59	29.3	1193	58.1	4929	59.3	11412	27.7	20751	60 17.6	31694	89 27.5	37812	1
60	30.8	1234	28 1.6	5014	33 6.2	11545	40.6	20928	41.3	31864	90 0.0	37814	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	25° 0' 0	0 25° 46' 2	1229 28° 18' 0	4991 33° 24' 2	11483 43° 0' 2	20786 60° 58' 1	31573 60
1	0' 0	0 47' 7	1270 21' 6	5076 31' 1	11615 13' 2	20962 61 21' 9	31739 59
2	0' 0	1 49' 4	1313 25' 3	5162 38' 1	11748 26' 4	21138 46' 0	31904 58
3	0' 1	3 51' 0	1356 29' 0	5249 45' 2	11883 39' 7	21315 62 10' 3	32068 57
4	0' 2	5 52' 7	1399 32' 8	5336 52' 4	12018 53' 1	21492 34' 8	32229 56
5	0' 3	8 54' 4	1444 36' 6	5425 59' 6	12153 44 6' 7	21670 59' 5	32390 55
6	25° 0' 5	12 25° 56' 1	1489 28° 40' 4	5514 34° 6' 9	12290 44° 20' 5	21848 63° 24' 4	32548 54
7	0' 6	17 57' 9	1534 44' 3	5604 14' 3	12427 34' 3	22027 49' 5	32706 53
8	0' 8	22 59' 7	1581 48' 3	5694 21' 7	12565 48' 4	22207 64 14' 8	32863 52
9	1' 0	28 26 1' 5	1628 52' 3	5785 29' 2	12704 45 2' 6	22386 40' 3	33016 51
10	1' 3	34 3' 3	1676 56' 4	5877 36' 9	12844 16' 9	22566 65 6' 1	33168 50
11	25° 1' 5	41 26° 5' 2	1724 29° 0' 4	5970 34° 44' 6	12984 45° 31' 4	22746 65° 32' 0	33319 49
12	1' 8	49 7' 1	1774 4' 5	6064 52' 3	13124 46' 0	22927 58' 2	33468 48
13	2' 1	57 9' 1	1824 8' 6	6158 35 0' 2	13267 46 0' 8	23108 66 24' 5	33615 47
14	2' 5	66 11' 1	1874 12' 8	6253 8' 1	13410 15' 8	23290 51' 1	33759 46
15	2' 8	77 13' 1	1926 17' 1	6349 16' 1	13554 30' 9	23472 67 17' 8	33903 45
16	25° 3' 2	87 26° 15' 1	1978 29° 21' 4	6446 35° 24' 2	13699 46° 46' 1	23654 67° 44' 8	34043 44
17	3' 6	98 17' 2	2031 25' 7	6544 32' 4	13844 47 1' 6	23836 68 11' 9	34182 43
18	4' 1	110 19' 2	2084 30' 1	6642 40' 7	13990 17' 2	24019 39' 3	34318 42
19	4' 5	123 21' 4	2139 34' 6	6741 49' 1	14137 32' 9	24202 69 6' 8	34454 41
20	5' 0	136 23' 5	2194 39' 1	6841 57' 5	14284 48' 8	24385 34' 5	34584 40
21	25° 5' 5	150 26° 25' 7	2249 29° 43' 6	6941 36° 6' 1	14432 48° 4' 9	24568 70° 2' 4	34715 39
22	6' 1	164 27' 9	2305 48' 2	7043 14' 7	14581 21' 2	24751 30' 5	34842 38
23	6' 7	180 30' 2	2363 52' 8	7145 23' 4	14731 37' 6	24936 58' 8	34967 37
24	7' 3	196 32' 5	2421 57' 5	7248 32' 2	14882 54' 2	25120 71 27' 3	35090 36
25	7' 9	212 34' 8	2479 30 2' 3	7352 41' 1	15034 49 11' 0	25303 55' 9	35209 35
26	25° 8' 5	229 26° 37' 2	2539 30° 7' 0	7456 36° 50' 1	15186 49° 27' 9	25488 72° 24' 8	35327 34
27	9' 2	248 39' 5	2599 11' 9	7561 59' 2	15339 45' 1	25672 53' 8	35440 33
28	9' 9	267 41' 9	2659 16' 8	7667 37 8' 4	15493 50 2' 4	25856 73 22' 9	35553 32
29	10' 6	286 44' 4	2721 21' 7	7774 17' 7	15647 19' 9	26040 52' 2	35661 31
30	11' 3	306 46' 9	2783 26' 7	7882 27' 1	15802 37' 5	26224 74 21' 7	35767 30
31	25° 12' 1	327 26° 49' 4	2846 30° 31' 8	7991 37° 36' 6	15958 50° 55' 4	26408 74° 51' 4	35870 29
32	12' 9	349 51' 9	2909 36' 9	8100 46' 2	16115 51 13' 4	26592 75 21' 2	35972 28
33	13' 7	371 54' 5	2973 42' 1	8210 55' 9	16273 31' 6	26776 51' 2	36068 27
34	14' 6	393 57' 2	3039 47' 3	8321 38 5' 7	16431 50' 0	26960 76 21' 3	36162 26
35	15' 5	417 59' 8	3105 52' 6	8432 15' 6	16590 52 8' 6	27143 51' 5	36253 25
36	25° 16' 4	441 27° 2' 5	3171 30° 57' 9	8544 38° 25' 6	16749 52° 27' 4	27327 77° 21' 9	36341 24
37	17' 3	466 5' 2	3239 31 3' 3	8658 35' 7	16910 46' 4	27510 52' 4	36425 23
38	18' 3	491 8' 0	3307 8' 7	8772 45' 9	17072 53 5' 6	27692 78 23' 1	36507 22
39	19' 2	518 10' 8	3376 14' 2	8887 56' 2	17234 24' 9	27875 53' 9	36585 21
40	20' 3	545 13' 6	3445 19' 8	9003 39 6' 6	17396 44' 5	28058 79 24' 8	36660 20
41	25° 21' 3	572 27° 16' 4	3515 31° 25' 4	9119 39° 17' 2	17559 54° 4' 2	28240 79° 55' 8	36731 19
42	22' 4	601 19' 4	3586 31' 1	9236 27' 8	17723 24' 2	28422 80 26' 9	36798 18
43	23' 4	630 22' 3	3658 36' 8	9354 38' 6	17888 44' 3	28602 58' 2	36863 17
44	24' 6	659 25' 3	3731 42' 6	9473 49' 5	18053 55 4' 7	28783 81 29' 5	36924 16
45	25' 7	690 28' 3	3804 48' 5	9593 40 0' 5	18219 25' 2	28963 82 1' 0	36982 15
46	25° 26' 9	720 27° 31' 3	3878 31° 54' 4	9713 40° 11' 6	18385 55° 46' 0	29143 82° 32' 5	37036 14
47	28' 1	753 34' 4	3952 32 0' 4	9834 22' 8	18552 56 6' 9	29322 83 4' 1	37086 13
48	29' 3	785 37' 5	4028 6' 4	9956 34' 2	18720 28' 1	29500 35' 8	37132 12
49	30' 6	818 40' 7	4104 12' 5	10079 45' 6	18890 49' 4	29677 84 7' 5	37177 11
50	31' 8	852 43' 9	4181 18' 7	10202 57' 2	19059 57 11' 0	29854 39' 4	37216 10
51	25° 33' 1	887 27° 47' 1	4258 32° 25' 0	10327 41° 8' 9	19229 57° 32' 8	30031 85° 11' 2	37252 9
52	34' 5	922 50' 4	4336 31' 3	10452 20' 8	19400 54' 8	30206 43' 2	37284 8
53	35' 8	958 53' 7	4416 37' 7	10578 32' 8	19571 58 16' 9	30380 86 15' 2	37312 7
54	37' 2	995 57' 0	4496 44' 1	10705 44' 9	19743 39' 3	30554 47' 2	37338 6
55	38' 6	1032 28 0' 4	4577 50' 6	10833 57' 1	19915 59 1' 9	30726 87 19' 3	37357 5
56	25° 40' 1	1070 28° 3' 9	4658 32° 57' 2	10961 42° 9' 4	20088 59° 24' 7	30898 87° 51' 4	37375 4
57	41' 6	1109 7' 3	4740 33 3' 8	11091 21' 9	20262 47' 8	31069 88 23' 5	37388 3
58	43' 1	1148 10' 9	4823 10' 5	11221 34' 5	20436 60 11' 0	31238 55' 7	37397 2
59	44' 6	1188 14' 4	4907 17' 3	11351 47' 3	20611 34' 4	31406 89 27' 8	37403 1
60	46' 2	1229 18' 0	4991 24' 2	11483 43 0' 2	20786 58' 1	31573 90 0' 0	37405 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 II		1 II		2 II		3 II		4 II		5 II		
0	25°15·0	0	26° 1·5	1224	28°34·3	4968	33°42·2	11421	43°19·7	20644	61°14·6	31284	60
1	15·0	0	3·1	1265	38·0	5053	49·1	11553	32·7	20818	38·3	31448	59
2	15·0	1	4·7	1307	41·7	5138	56·2	11685	45·9	20993	62 2·2	31610	58
3	15·1	3	6·4	1350	45·4	5225	34 3·3	11818	59·2	21168	26·3	31770	57
4	15·2	5	8·1	1393	49·2	5312	10·4	11952	44 12·6	21343	50·7	31929	56
5	15·4	8	9·8	1437	53·1	5400	17·7	12087	26·2	21519	63 15·2	32086	55
6	25°15·5	12	26°11·5	1482	28°56·9	5488	34°25·0	12223	44°40·0	21695	63°39·9	32243	54
7	15·6	17	13·3	1528	29 0·8	5577	32·5	12359	53·9	21872	64 4·9	32397	53
8	15·8	21	15·1	1574	4·8	5667	39·9	12496	45 7·9	22049	30·0	32550	52
9	16·0	27	16·9	1621	8·8	5758	47·5	12634	22·1	22226	55·4	32702	51
10	16·3	33	18·8	1669	12·9	5850	55·1	12772	36·4	22404	65 20·9	32851	50
11	25°16·5	41	26°20·7	1717	29°17·0	5942	35° 2·9	12912	45°50·9	22583	65°46·7	32999	49
12	16·8	49	22·6	1766	21·1	6035	10·7	13052	46 5·5	22762	66 12·6	33145	48
13	17·1	57	24·6	1816	25·3	6129	18·5	13193	20·3	22941	38·8	33289	47
14	17·5	66	26·6	1866	29·5	6224	26·5	13335	35·2	23120	67 5·1	33431	46
15	17·8	76	28·6	1918	33·8	6319	34·6	13477	50·3	23299	31·7	33571	45
16	25°18·2	87	26°30·6	1969	29°38·1	6415	35°42·7	13621	47° 5·6	23479	67°58·4	33709	44
17	18·7	98	32·7	2022	42·5	6512	50·9	13765	21·0	23660	68 25·3	33846	43
18	19·1	110	34·8	2075	46·9	6610	59·2	13910	36·6	23840	52·4	33979	42
19	19·6	122	36·9	2129	51·4	6709	36 7·6	14055	52·3	24021	69 19·7	34111	41
20	20·1	135	39·1	2184	55·9	6808	16·1	14202	48 8·2	24202	47·2	34240	40
21	25°20·6	149	26°41·3	2240	30° 0·5	6908	36°24·7	14349	48°24·3	24383	70°15·0	34367	39
22	21·1	164	43·6	2296	5·1	7009	33·3	14497	40·5	24564	42·7	34492	38
23	21·7	179	45·8	2353	9·7	7110	42·1	14646	56·9	24746	71 10·8	34615	37
24	22·3	195	48·1	2410	14·4	7213	50·9	14795	49 13·5	24927	39·0	34735	36
25	22·9	212	50·5	2469	19·2	7316	59·9	14945	30·3	25109	72 7·4	34852	35
26	25°23·6	229	26°52·8	2528	30°24·0	7420	37° 8·9	15096	49°47·2	25290	72°35·9	34967	34
27	24·2	247	55·2	2587	28·9	7524	18·0	15248	50 4·3	25472	73 4·7	35079	33
28	24·9	266	57·7	2648	33·8	7630	27·2	15400	21·6	25654	33·6	35188	32
29	25·7	285	27 0·1	2709	38·8	7736	36·6	15554	39·0	25835	74 2·6	35295	31
30	26·4	305	2·6	2771	43·8	7843	46·0	15708	56·6	26017	31·8	35399	30
31	25°27·2	325	27° 5·2	2834	30°48·9	7951	37°55·5	15862	51°14·4	26198	75° 1·2	35500	29
32	28·0	347	7·7	2897	54·1	8060	38 5·1	16018	32·4	26380	30·7	35598	28
33	28·8	369	10·3	2961	59·3	8169	14·8	16174	50·6	26561	76 0·4	35693	27
34	29·7	392	13·0	3026	31 4·5	8279	24·6	16331	52 9·0	26743	30·2	35784	26
35	30·6	415	15·6	3091	9·8	8390	34·5	16488	27·5	26923	77 0·1	35874	25
36	25°31·5	439	27°18·3	3157	31°15·2	8502	38°44·6	16647	52°46·2	27104	77°30·2	35960	24
37	32·4	464	21·1	3224	20·6	8615	54·7	16806	53 5·2	27285	78 0·4	36043	23
38	33·4	489	23·9	3292	26·0	8728	39 5·0	16966	24·3	27465	30·8	36122	22
39	34·4	516	26·7	3361	31·6	8842	15·3	17126	43·6	27645	79 1·2	36199	21
40	35·4	542	29·5	3430	37·2	8957	25·8	17287	54 3·1	27825	31·8	36272	20
41	25°36·4	570	27°32·4	3500	31°42·8	9073	39°36·3	17449	54°22·7	28004	80° 2·5	36342	19
42	37·5	598	35·3	3570	48·5	9189	47·0	17611	42·6	28183	33·3	36408	18
43	38·6	627	38·3	3642	54·3	9306	57·8	17774	55 2·7	28361	81 4·2	36472	17
44	39·7	657	41·3	3714	32 0·1	9424	40 8·7	17938	23·0	28539	35·2	36531	16
45	40·9	687	44·3	3787	6·0	9543	19·7	18103	43·4	28717	82 6·3	36587	15
46	25°42·1	718	27°47·4	3860	32°12·0	9663	40°30·8	18268	56° 4·1	28893	82°37·5	36640	14
47	43·3	749	50·5	3935	18·0	9783	42·1	18434	25·0	29069	83 8·7	36689	13
48	44·5	782	53·6	4010	24·1	9905	53·5	18600	46·0	29245	40·1	36735	12
49	45·8	815	56·8	4085	30·2	10027	41 5·0	18767	57 7·3	29420	84 11·5	36778	11
50	47·1	848	28 0·0	4162	36·4	10150	16·6	18935	28·7	29594	43·0	36816	10
51	25°48·4	883	28° 3·3	4239	32°42·7	10273	41°28·3	19103	57°50·4	29767	85°14·5	36851	9
52	49·7	918	6·5	4317	49·0	10398	40·2	19272	58 12·3	29940	46·1	36883	8
53	51·1	954	9·9	4396	55·4	10523	52·1	19442	34·3	30111	86 17·8	36910	7
54	52·5	990	13·3	4475	33 1·9	10649	42 4·2	19612	56·6	30282	49·4	36934	6
55	53·9	1028	16·7	4556	8·4	10776	16·5	19782	59 19·1	30452	87 21·1	36955	5
56	25°55·4	1065	28°20·1	4637	33°15·0	10903	42°28·9	19953	59°41·8	30621	87°52·8	36971	4
57	56·9	1104	23·6	4719	21·7	11031	41·4	20125	60 4·7	30788	88 24·6	36985	3
58	58·4	1143	27·1	4801	28·5	11161	54·0	20298	27·8	30955	56·4	36994	2
59	59·9	1183	30·7	4884	35·3	11291	43 6·8	20471	51·1	31120	89 28·2	36999	1
60	26 1·5	1224	34·3	4968	42·2	11421	19·7	20644	61 14·6	31284	90 0·0	37001	0
	11 II	10 II	9 II	8 II	7 II	6 II	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	25°30·0	0 26°16·8	1219 28°50·7	4945 34° 0·1	11359 43°39·0	20502 61°30·9	30997 60
1	30·0	0 18·4	1260 54·3	5029 7·1	11490 52·0	20674 54·4	31158 59
2	30·1	1 20·1	1302 58·1	5114 14·1	11621 44 5·2	20846 62 18·2	31317 58
3	30·1	3 21·7	1344 29 1·8	5200 21·3	11753 18·5	21019 42·2	31474 57
4	30·2	5 23·4	1387 5·6	5287 28·5	11887 32·0	21193 63 6·4	31631 56
5	30·3	8 25·2	1431 9·5	5374 35·8	12020 45·6	21367 30·7	31785 55
6	25°30·5	12 26°26·9	1476 29°13·4	5462 34°43·1	12155 44°59·3	21542 63°55·3	31939 54
7	30·6	17 28·7	1521 17·3	5551 50·6	12290 45 13·2	21716 64 20·1	32090 53
8	30·8	21 30·5	1567 21·3	5641 58·1	12427 27·3	21892 45·0	32241 52
9	31·0	27 32·4	1614 25·3	5731 35 5·7	12563 41·4	22067 65 10·2	32389 51
10	31·3	33 34·2	1662 29·4	5822 13·4	12700 55·8	22243 35·6	32537 50
11	25°31·5	41 26°36·1	1710 29°33·5	5914 35°21·1	12839 46°10·2	22419 66° 1·1	32681 49
12	31·8	48 38·1	1759 37·7	6007 28·9	12978 24·9	22595 26·9	32824 48
13	32·2	57 40·1	1808 41·9	6100 36·9	13118 39·6	22773 52·8	32966 47
14	32·5	66 42·1	1858 46·2	6194 44·9	13259 54·6	22950 67 19·0	33105 46
15	32·9	76 44·1	1909 50·4	6289 52·9	13400 47 9·7	23128 45·3	33243 45
16	25°33·3	87 26°46·1	1961 29°54·8	6385 36° 1·1	13542 47°24·9	23305 68°11·8	33378 44
17	33·7	97 48·2	2013 59·2	6481 9·3	13685 40·3	23483 38·5	33512 43
18	34·1	109 50·4	2066 30 3·6	6578 17·7	13829 55·9	23662 69 5·4	33643 42
19	34·6	122 52·5	2120 8·1	6676 26·1	13974 48 11·6	23840 32·5	33772 41
20	35·1	135 54·7	2175 12·7	6775 34·6	14119 27·5	24019 59·7	33899 40
21	25°35·6	149 26°56·9	2230 30°17·3	6874 36°43·2	14265 48°43·5	24197 70°27·2	34023 39
22	36·2	163 59·2	2286 21·9	6975 51·9	14411 59·7	24376 54·6	34146 38
23	36·7	178 27 1·5	2343 26·6	7076 37 0·7	14559 49 16·1	24556 71 22·6	34266 37
24	37·4	194 3·8	2400 31·4	7178 9·6	14708 32·7	24735 50·5	34383 36
25	38·0	211 6·1	2458 36·1	7280 18·5	14857 49·4	24914 72 18·6	34498 35
26	25°38·6	228 27° 8·5	2516 30°41·0	7383 37°27·6	15006 50° 6·3	25093 72°46·9	34611 34
27	39·3	246 10·9	2576 45·9	7487 36·7	15157 23·3	25273 73 15·4	34720 33
28	40·0	264 13·4	2636 50·8	7592 46·0	15308 40·6	25453 44·0	34828 32
29	40·8	284 15·8	2697 55·8	7698 55·3	15460 58·0	25631 74 12·8	34932 31
30	41·5	304 18·4	2759 31 0·9	7804 38 4·8	15613 51 15·6	25810 41·7	35034 30
31	25°42·3	324 27°20·9	2821 31° 6·0	7912 38°14·3	15766 51°33·3	25990 75°10·8	35132 29
32	43·1	345 23·5	2884 11·2	8020 23·9	15920 51·3	26169 40·0	35228 28
33	43·9	367 26·1	2948 16·4	8128 33·7	16074 52 9·4	26347 76 9·4	35321 27
34	44·8	390 28·8	3013 21·7	8238 43·5	16230 27·7	26526 38·9	35412 26
35	45·7	413 31·5	3078 27·0	8348 53·5	16387 46·2	26705 77 8·6	35499 25
36	25°46·6	437 27°34·2	3144 31°32·4	8459 39° 3·5	16544 53° 4·9	26883 77°38·3	35583 24
37	47·6	462 36·9	3210 37·8	8571 13·7	16701 23·7	27061 78 8·3	35664 23
38	48·5	487 39·7	3277 43·3	8684 23·9	16859 42·8	27239 38·3	35742 22
39	49·5	513 42·6	3346 48·9	8797 34·3	17018 54 2·0	27416 79 8·4	35817 21
40	50·5	540 45·4	3415 54·5	8911 44·8	17178 21·4	27593 38·7	35889 20
41	25°51·6	568 27°48·3	3484 32° 0·2	9026 39°55·4	17338 54°41·0	27769 80° 9·1	35957 19
42	52·7	596 51·3	3554 5·9	9142 40 6·1	17499 55 0·8	27945 39·5	36022 18
43	53·8	624 54·2	3625 11·7	9259 16·9	17661 20·8	28121 81 10·1	36084 17
44	54·9	654 57·3	3697 17·6	9376 27·8	17823 41·0	28297 40·8	36142 16
45	56·1	684 28 0·3	3770 23·5	9494 38·8	17986 56 1·4	28471 82 11·5	36197 15
46	25°57·3	715 28° 3·4	3843 32°29·5	9613 40°50·0	18149 56°22·0	28645 82°42·4	36249 14
47	58·5	746 6·5	3917 35·5	9732 41 1·3	18314 42·8	28818 83 13·3	36297 13
48	59·7	779 9·7	3991 41·6	9853 12·6	18479 57 3·7	28991 44·3	36341 12
49	26 1·0	811 12·9	4067 47·8	9974 24·2	18644 24·9	29163 84 15·4	36383 11
50	2·3	845 16·1	4143 54·0	10096 35·8	18810 46·3	29335 46·5	36422 10
51	26° 3·6	879 28°19·4	4220 33° 0·3	10219 41°47·5	18977 58° 7·8	29505 85°17·7	36455 9
52	5·0	914 22·7	4297 6·7	10343 59·4	19144 29·6	29675 48·9	36485 8
53	6·3	950 26·1	4376 13·1	10467 42 11·4	19312 51·5	29844 86 20·2	36513 7
54	7·8	986 29·4	4455 19·6	10592 23·5	19481 59 13·7	30012 51·5	36536 6
55	9·2	1023 32·9	4535 26·2	10718 35·8	19650 36·1	30179 87 22·8	36556 5
56	26°10·7	1061 28°36·4	4616 33°32·8	10845 42°48·2	19820 59°58·6	30345 87°54·2	36572 4
57	12·1	1099 39·9	4697 39·5	10972 43 0·7	19990 60 21·4	30509 88 25·7	36585 3
58	13·7	1138 43·4	4779 46·3	11101 13·3	20160 44·3	30673 57·1	36594 2
59	15·2	1178 47·0	4862 53·2	11230 26·1	20331 61 7·5	30836 89 28·6	36600 1
60	16·8	1219 50·7	4945 34 0·1	11359 39·0	20502 30·9	30997 90 0·0	36602 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	25°45'0	0	26°32'1	1213	29° 7'0	4922	34°18'0	11297	43°58'2	20360	61°47'0	30712	60
1	45'0	0	33'8	1254	10'7	5006	25'0	11427	44 11'3	20530	62 10'4	30869	59
2	45'1	1	35'4	1296	14'4	5091	32'1	11557	24'4	20701	34'0	31025	58
3	45'1	3	37'1	1338	18'2	5176	39'2	11689	37'8	20872	57'8	31181	57
4	45'2	5	38'8	1381	22'0	5262	46'5	11821	51'2	21044	63 21'8	31334	56
5	45'3	8	40'5	1425	25'9	5349	53'8	11953	45 4'8	21216	46'0	31486	55
6	25°45'5	12	26°42'3	1470	29°29'8	5437	35° 1'2	12087	45°18'6	21388	64°10'4	31636	54
7	45'6	16	44'1	1515	33'8	5525	8'6	12221	32'5	21561	35'0	31785	53
8	45'8	21	45'9	1561	37'8	5614	16'2	12356	46'5	21734	59'8	31933	52
9	46'0	27	47'8	1607	41'8	5704	23'8	12492	46 0'7	21908	65 24'8	32079	51
10	46'3	33	49'7	1654	45'9	5794	31'5	12629	15'0	22082	50'0	32223	50
11	25°46'6	41	26°51'6	1702	29°50'1	5886	35°39'3	12766	46°29'4	22256	66°15'3	32366	49
12	46'9	48	53'6	1751	54'3	5978	47'2	12904	44'0	22431	40'9	32506	48
13	47'2	57	55'5	1800	58'5	6071	55'1	13043	58'8	22605	67 6'7	32645	47
14	47'5	66	57'5	1850	30 2'8	6164	36 3'1	13183	47 13'8	22781	32'6	32782	46
15	47'9	75	59'6	1901	7'1	6259	11'2	13323	28'8	22956	58'7	32916	45
16	25°48'3	86	27° 1'7	1952	30°11'5	6354	36°19'4	13464	47°44'1	23132	68°25'0	33049	44
17	48'7	97	3'8	2004	15'9	6450	27'7	13605	59'4	23308	51'5	33180	43
18	49'2	109	5'9	2057	20'4	6546	36'1	13748	48 15'0	23484	69 18'2	33309	42
19	49'6	121	8'1	2111	24'9	6644	44'5	13892	30'7	23660	45'0	33436	41
20	50'1	134	10'3	2165	29'5	6742	53'1	14036	46'6	23836	70 12'0	33560	40
21	25°50'7	148	27°12'5	2220	30°34'1	6841	37° 1'7	14181	49° 2'6	24013	70°39'2	33683	39
22	51'2	163	14'8	2276	38'7	6940	10'4	14327	18'8	24189	71 6'6	33802	38
23	51'8	178	16'9	2332	43'5	7041	19'2	14473	35'1	24366	34'1	33920	37
24	52'4	193	19'4	2389	48'2	7142	28'1	14620	51'6	24543	72 1'9	34035	36
25	53'0	210	21'8	2447	53'0	7244	37'1	14768	50 8'3	24720	29'8	34147	35
26	25°53'7	227	27°24'2	2505	30°57'9	7347	37°46'2	14916	50°25'2	24897	72°57'8	34257	34
27	54'4	245	26'6	2564	31 2'8	7450	55'4	15065	42'2	25074	73 26'0	34365	33
28	55'1	264	29'1	2624	7'8	7554	38 4'6	15215	59'4	25251	54'3	34470	32
29	55'8	282	31'6	2685	12'8	7659	14'0	15366	51 16'8	25428	74 22'8	34572	31
30	56'6	302	34'1	2747	17'9	7765	23'5	15517	34'3	25604	51'5	34672	30
31	25°57'4	323	27°36'7	2809	31°23'1	7872	38°33'0	15669	51°52'0	25781	75°20'3	34769	29
32	58'2	344	39'3	2871	28'3	7979	42'6	15822	52 9'9	25957	49'2	34863	28
33	59'0	366	41'9	2935	33'5	8087	52'5	15976	28'0	26134	76 18'3	34954	27
34	59'9	388	44'6	2999	38'8	8196	39 2'3	16130	46'3	26310	47'5	35042	26
35	26 0'8	412	47'3	3064	44'2	8305	12'3	16285	53 4'7	26486	77 16'9	35128	25
36	26° 1'7	435	27°50'0	3129	31°49'6	8416	39°22'4	16440	53°23'3	26662	77°46'4	35210	24
37	2'7	460	52'8	3196	55'0	8527	32'5	16596	42'1	26837	78 16'0	35290	23
38	3'7	485	55'6	3263	32 0'6	8639	42'8	16752	54 1'1	27012	45'7	35366	22
39	4'7	511	58'4	3331	6'2	8752	53'2	16910	20'3	27187	79 15'5	35439	21
40	5'7	538	28 1'3	3399	11'8	8865	40 3'7	17069	39'6	27361	45'4	35508	20
41	26° 6'7	565	28° 4'3	3468	32°17'5	8979	40°14'3	17228	54°59'2	27535	80°15'5	35575	19
42	7'8	593	7'2	3538	23'3	9094	25'0	17387	55 18'9	27709	45'7	35639	18
43	8'9	622	10'2	3609	29'1	9210	35'9	17547	38'8	27882	81 15'9	35700	17
44	10'1	651	13'2	3680	35'0	9327	46'8	17708	58'9	28054	46'3	35757	16
45	11'3	681	16'3	3752	40'9	9444	57'9	17870	56 19'2	28227	82 16'7	35811	15
46	26°12'5	712	28°19'4	3825	32°46'9	9562	41° 9'0	18032	56°39'7	28398	82°47'2	35861	14
47	13'7	743	22'5	3899	53'0	9681	20'3	18194	57 0'4	28569	83 17'8	35908	13
48	14'9	775	25'7	3973	59'1	9801	31'7	18357	21'2	28739	48'5	35952	12
49	16'2	808	28'9	4048	33 5'3	9921	43'2	18521	42'3	28908	84 19'2	35993	11
50	17'5	841	32'2	4124	11'6	10042	54'9	18686	58 3'6	29077	50'0	36030	10
51	26°18'8	875	28°35'5	4200	33°17'9	10164	42° 6'7	18851	58°25'0	29245	85°20'8	36063	9
52	20'2	910	38'8	4278	24'3	10287	18'5	19016	46'7	29412	51'7	36093	8
53	21'6	946	42'2	4356	30'8	10411	30'6	19182	59 8'5	29578	86 22'6	36120	7
54	23'0	982	45'6	4434	37'3	10535	42'7	19349	30'6	29743	53'6	36143	6
55	24'5	1019	49'1	4514	43'9	10660	55'0	19516	52'8	29907	87 24'6	36162	5
56	26°25'9	1056	28°52'6	4594	33°50'6	10786	43° 7'4	19684	60°15'2	30070	87°55'7	36178	4
57	27'4	1095	56'1	4675	57'3	10913	19'9	19852	37'9	30232	88 26'7	36190	3
58	29'0	1133	59'7	4757	34 4'1	11040	32'5	20021	61 0'7	30393	57'8	36199	2
59	30'5	1173	29 3'3	4839	11'0	11168	45'3	20190	23'7	30553	89 28'9	36205	1
60	32'1	1213	7'0	4922	18'0	11297	58'2	20360	47'0	30712	90 0'0	36207	0
	11 H		10 H		9 H		8 H		7 H		6 H		m

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	26° 0-0	0	26° 47-5	1208	29° 23-3	4899	34° 35-8	11235	44° 17-3	20218	62° 2-8	30428	60
1	0-0	0	49-1	1249	27-0	4982	42-8	11363	30-4	20387	26-1	30583	59
2	0-1	1	50-8	1290	30-7	5066	49-9	11493	43-5	20556	49-6	30737	58
3	0-1	3	52-5	1332	34-6	5151	57-1	11623	56-9	20725	63 13-2	30889	57
4	0-2	5	54-2	1375	38-4	5236	35 4-4	11755	45 10-3	20895	37-1	31040	56
5	0-3	8	55-9	1419	42-3	5323	11-7	11887	23-9	21065	64 1-1	31189	55
6	26° 0-5	12	26° 57-7	1463	29° 46-2	5410	35° 19-2	12019	45° 37-7	21235	64° 25-4	31336	54
7	0-6	16	59-5	1508	50-2	5498	26-7	12152	51-6	21406	49-8	31483	53
8	0-8	21	27 1-3	1553	54-3	5587	34-2	12286	46 5-6	21577	65 14-4	31628	52
9	1-0	27	3-2	1600	58-4	5676	41-9	12421	19-7	21749	39-2	31771	51
10	1-3	33	5-1	1647	30 2-5	5766	49-6	12556	34-0	21921	66 4-2	31913	50
11	26° 1-6	41	27° 7-0	1695	30° 6-6	5857	35° 57-4	12693	46° 48-5	22093	66° 29-4	32052	49
12	1-9	48	9-0	1743	10-8	5949	36 5-3	12830	47 3-1	22266	54-7	32189	48
13	2-2	57	11-0	1792	15-1	6041	13-3	12968	17-9	22438	67 20-3	32326	47
14	2-5	66	13-0	1842	19-4	6134	21-3	13107	32-8	22611	46-0	32461	46
15	2-9	75	15-1	1893	23-7	6228	29-5	13246	47-8	22784	68 11-9	32593	45
16	26° 3-3	86	27° 17-2	1944	30° 28-1	6322	36° 37-7	13386	48° 3-1	22958	68° 38-0	32723	44
17	3-7	97	19-3	1996	32-6	6418	46-0	13526	18-4	23132	69 4-3	32852	43
18	4-2	109	21-5	2048	37-1	6515	54-4	13668	34-0	23305	30-7	32978	42
19	4-7	121	23-7	2102	41-6	6612	37 2-9	13810	49-6	23479	57-4	33101	41
20	5-2	134	25-9	2156	46-2	6709	11-4	13953	49 5-5	23654	70 24-2	33223	40
21	26° 5-7	147	27° 28-1	2210	30° 50-8	6807	37° 20-1	14097	49° 21-5	23828	70° 51-1	33344	39
22	6-3	162	30-4	2265	55-5	6906	28-8	14241	37-6	24002	71 18-3	33463	38
23	6-8	177	32-7	2322	31 0-3	7006	37-7	14386	54-0	24177	45-6	33578	37
24	7-5	193	35-0	2379	5-1	7106	46-6	14532	50 10-4	24351	72 13-0	33691	36
25	8-1	209	37-4	2436	9-9	7208	55-6	14679	27-1	24526	40-6	33800	35
26	26° 8-8	226	27° 39-8	2494	31° 14-8	7310	38° 4-7	14826	50° 43-9	24701	73° 8-4	33908	34
27	9-5	244	42-3	2553	19-8	7413	13-9	14974	51 0-9	24876	36-4	34013	33
28	10-2	262	44-8	2612	24-8	7516	23-2	15123	18-1	25050	74 4-4	34116	32
29	10-9	281	47-3	2673	29-8	7621	32-6	15272	35-4	25224	32-7	34217	31
30	11-7	301	49-8	2734	34-9	7726	42-1	15422	52-9	25399	75 1-1	34314	30
31	26° 12-5	321	27° 52-4	2796	31° 40-1	7832	38° 51-7	15572	52° 10-6	25573	75° 29-6	34409	29
32	13-3	342	55-0	2858	45-3	7938	39 1-4	15723	28-4	25747	58-2	34501	28
33	14-1	364	57-7	2921	50-6	8046	11-1	15876	46-4	25921	76 27-0	34590	27
34	15-0	387	28 0-4	2985	55-9	8154	21-0	16029	53 4-6	26095	56-0	34677	26
35	15-9	410	3-1	3050	32 1-3	8263	31-0	16182	23-0	26268	77 25-0	34760	25
36	26° 16-8	434	28° 5-8	3115	32° 6-7	8373	39° 41-1	16336	53° 41-6	26442	77° 54-2	34840	24
37	17-8	458	8-6	3181	12-2	8483	51-3	16492	54 0-3	26615	78 23-5	34918	23
38	18-8	483	11-5	3248	17-8	8594	40 1-6	16648	19-2	26787	52-9	34994	22
39	19-8	509	14-3	3315	23-4	8706	12-0	16804	38-3	26959	79 22-5	35066	21
40	20-8	535	17-2	3384	29-1	8819	22-5	16960	57-6	27131	52-1	35133	20
41	26° 21-9	563	28° 20-2	3453	32° 34-8	8933	40° 33-2	17117	55° 17-1	27303	80° 21-8	35198	19
42	23-0	590	23-1	3522	40-6	9047	43-9	17275	36-7	27474	51-7	35261	18
43	24-1	619	26-1	3592	46-4	9162	54-8	17434	56-6	27644	81 21-6	35320	17
44	25-3	648	29-2	3663	52-4	9278	41 5-8	17593	56 16-6	27814	51-6	35375	16
45	26-4	678	32-3	3735	58-4	9394	16-9	17753	36-8	27983	82 21-7	35428	15
46	26° 27-6	709	28° 35-4	3807	33° 4-4	9511	41° 28-0	17913	56° 57-2	28152	82° 51-9	35478	14
47	28-9	740	38-5	3880	10-5	9630	39-3	18074	57 17-8	28320	83 22-2	35524	13
48	30-1	771	41-8	3954	16-6	9749	50-7	18236	38-6	28487	52-5	35568	12
49	31-4	804	45-0	4029	22-9	9868	42 2-2	18398	59-5	28654	84 22-9	35607	11
50	32-7	838	48-3	4104	29-2	9989	13-9	18561	58 20-7	28820	53-4	35643	10
51	26° 34-1	872	28° 51-6	4181	33° 35-5	10110	42° 25-7	18724	58° 42-0	28985	85° 23-9	35675	9
52	35-4	907	55-0	4258	41-9	10232	37-6	18888	59 3-6	29150	54-4	35704	8
53	36-8	942	58-3	4335	48-4	10354	49-6	19053	25-3	29313	86 25-0	35730	7
54	38-3	977	29 1-8	4413	55-0	10478	43 1-7	19218	47-2	29475	55-7	35753	6
55	39-7	1014	5-3	4493	34 1-6	10602	14-0	19383	60 9-3	29637	87 26-4	35772	5
56	26° 41-2	1051	29° 8-8	4573	34° 8-3	10727	43° 26-5	19549	60° 31-6	29797	87° 57-1	35787	4
57	42-7	1090	12-3	4653	15-1	10853	38-9	19716	54-2	29956	88 27-8	35799	3
58	44-3	1129	15-9	4734	21-9	10979	51-6	19883	61 16-8	30115	58-5	35808	2
59	45-9	1168	19-6	4816	28-8	11107	44 4-4	20050	39-7	30272	89 29-2	35814	1
60	47-5	1208	23-3	4899	35-8	11235	17-3	20218	62 2-8	30428	90 0-0	35816	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	26°15'0	0	27° 2'8	1203	29°39'5	4875	34°53'5	11172	44°36'3	20076	62°18'5	30146	60
1	15'0	0	4'4	1243	43'3	4958	35 0'6	11300	49'3	20243	41'6	30298	59
2	15'1	1	6'1	1285	47'1	5042	7'8	11428	45 2'5	20410	63 4'9	30449	58
3	15'1	3	7'8	1327	50'9	5126	15'0	11558	15'8	20577	28'4	30599	57
4	15'2	5	9'5	1369	54'8	5212	22'3	11688	29'3	20745	52'1	30747	56
5	15'3	8	11'3	1413	58'7	5298	29'7	11819	42'9	20913	64 16'0	30894	55
6	26°15'5	12	27°13'1	1457	30° 2'6	5384	35°37'1	11950	45°56'6	21082	64°40'1	31039	54
7	15'6	16	14'9	1502	6'6	5471	44'6	12083	46 10'5	21251	65 4'3	31183	53
8	15'8	21	16'8	1547	10'7	5559	52'2	12216	24'5	21420	28'8	31325	52
9	16'1	27	18'6	1593	14'8	5648	59'9	12349	38'7	21590	53'4	31465	51
10	16'3	33	20'5	1640	18'9	5738	36 7'6	12484	53'0	21760	66 18'2	31604	50
11	26°16'6	40	27°22'5	1687	30°23'1	5828	36°15'5	12619	47° 7'4	21930	66°43'2	31741	49
12	16'9	48	24'5	1735	27'4	5919	23'4	12755	22'0	22100	67 8'4	31877	48
13	17'2	56	26'5	1784	31'7	6011	31'4	12892	36'8	22271	33'7	32010	47
14	17'5	65	28'5	1834	36'0	6104	39'5	13029	51'7	22442	59'3	32142	46
15	17'9	75	30'6	1884	40'3	6197	47'6	13168	48 6'7	22613	68 25'0	32272	45
16	26°18'3	85	27°32'7	1935	30°44'8	6291	36°55'9	13307	48°21'9	22784	68°50'9	32400	44
17	18'8	96	34'8	1987	49'2	6386	37 4'2	13446	37'3	22956	69 16'9	32526	43
18	19'2	108	37'0	2039	53'7	6481	12'6	13587	52'8	23128	43'1	32650	42
19	19'7	120	39'2	2092	58'3	6578	21'1	13728	49 8'4	23300	70 9'5	32772	41
20	20'2	133	41'4	2146	31 2'9	6675	29'7	13870	24'2	23472	36'1	32891	40
21	26°20'7	147	27°43'7	2200	31° 7'6	6772	37°38'4	14012	49°40'2	23644	71° 2'8	33009	39
22	21'3	161	46'0	2255	12'3	6871	47'2	14155	56'3	23816	29'6	33124	38
23	21'9	176	48'3	2311	17'1	6970	56'0	14299	50 12'6	23988	56'8	33237	37
24	22'5	192	50'7	2368	21'9	7070	38 5'0	14444	29'1	24160	72 24'0	33348	36
25	23'1	208	53'1	2425	26'8	7171	14'0	14589	45'7	24333	51'4	33456	35
26	26°23'8	225	27°55'5	2483	31°31'7	7273	38°23'1	14735	51° 2'5	24505	73°18'9	33561	34
27	24'5	243	57'9	2542	36'7	7375	32'4	14882	19'4	24677	46'6	33665	33
28	25'2	261	28 0'4	2601	41'7	7478	41'7	15029	36'6	24850	74 14'4	33765	32
29	26'0	280	3'0	2661	46'8	7582	51'1	15177	53'8	25022	42'4	33864	31
30	26'7	300	5'5	2722	51'9	7686	39 0'6	15326	52 11'3	25194	75 10'5	33959	30
31	26°27'5	320	28° 8'1	2783	31°57'1	7791	39°10'2	15476	52°28'9	25366	75°38'7	34052	29
32	28'4	341	10'8	2845	32 2'3	7897	19'9	15626	46'7	25537	76 7'1	34142	28
33	29'2	363	13'4	2908	7'6	8004	29'7	15776	53 4'7	25709	35'6	34230	27
34	30'1	385	16'1	2972	13'0	8112	39'7	15928	22'8	25880	77 4'3	34314	26
35	31'0	408	18'9	3036	18'4	8220	49'7	16080	41'2	26051	33'1	34396	25
36	26°32'0	432	28°21'7	3101	32°23'8	8329	39°59'8	16233	53°59'6	26222	78° 1'9	34475	24
37	32'9	456	24'5	3167	29'4	8439	40 10'0	16386	54 18'3	26392	31'0	34551	23
38	33'9	481	27'3	3233	35'0	8549	20'3	16540	37'2	26562	79 0'1	34624	22
39	34'9	507	30'2	3300	40'6	8661	30'7	16695	56'2	26732	29'3	34694	21
40	36'0	533	33'1	3368	46'3	8773	41'3	16850	55 15'4	26902	58'6	34761	20
41	26°37'0	560	28°36'1	3436	32°52'1	8885	40 51'9	17006	55°34'8	27071	80°28'1	34826	19
42	38'1	588	39'1	3506	57'9	8999	41 2'7	17163	54'4	27239	57'6	34887	18
43	39'3	616	42'1	3576	33 3'8	9113	13'5	17320	56 14'1	27407	81 27'2	34944	17
44	40'4	645	45'1	3646	9'7	9228	24'5	17478	34'1	27574	56'9	34999	16
45	41'6	675	48'3	3718	15'7	9344	35'6	17636	54'2	27741	82 26'7	35051	15
46	26°42'8	706	28°51'4	3790	33°21'8	9461	41°46'8	17795	57°14'5	27907	82°56'6	35099	14
47	44'1	737	54'6	3863	27'9	9578	58'1	17954	35'0	28072	83 26'5	35144	13
48	45'3	768	57'8	3936	34'1	9696	42 9'6	18114	55'7	28237	56'5	35186	12
49	46'6	801	29 1'0	4010	40'3	9815	21'1	18275	58 16'5	28401	84 26'6	35225	11
50	48'0	835	4'3	4085	46'7	9935	32'8	18436	37'6	28565	56'8	35260	10
51	26°49'3	868	29° 7'7	4161	33°53'0	10055	42°44'6	18598	58°58'8	28727	85°26'9	35293	9
52	50'7	902	11'1	4238	59'5	10176	56'5	18760	59 20'2	28889	57'1	35321	8
53	52'1	938	14'5	4315	34 6'0	10298	43 8'5	18923	41'9	29049	86 27'4	35346	7
54	53'5	973	17'9	4393	12'6	10420	20'7	19086	60 3'7	29209	57'7	35368	6
55	55'0	1010	21'4	4471	19'2	10544	33'0	19250	25'7	29368	87 28'0	35387	5
56	26°56'5	1047	29°25'0	4551	34°26'0	10668	43°45'4	19414	60°47'8	29526	87°58'4	35402	4
57	58'0	1085	28'5	4631	32'8	10793	57'9	19579	61 10'2	29683	88 28'8	35414	3
58	59'6	1124	32'2	4712	39'6	10918	44 10'6	19744	32'8	29838	59'2	35422	2
59	27 1'2	1163	35'8	4793	46'5	11045	23'4	19910	55'5	29993	89 29'6	35428	1
60	2'8	1203	39'5	4875	53'5	11172	36'3	20076	62 18'5	30146	90 0'0	35429	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	26°30·0	0	27°18·1	1198	29°55·8	4851	35°11·3	11109	44°55·1	19934	62°33·9	29866	60
1	30·0	0	19·7	1238	59·5	4934	18·4	11236	45 8·2	20099	56·9	30016	59
2	30·1	1	21·4	1279	30 3·3	5017	25·5	11364	21·4	20264	63 20·1	30165	58
3	30·1	3	23·1	1321	7·2	5101	32·8	11492	34·7	20430	43·4	30311	57
4	30·2	5	24·9	1364	11·1	5186	40·1	11621	48·1	20596	64 7·0	30457	56
5	30·3	8	26·7	1407	15·0	5272	47·5	11751	46 1·7	20762	30·7	30600	55
6	26°30·5	12	27°28·5	1451	30°19·0	5358	35°55·0	11882	46°15·5	20929	64°54·6	30743	54
7	30·6	16	30·3	1495	23·1	5445	36 2·5	12013	29·3	21096	65 18·7	30884	53
8	30·8	21	32·2	1540	27·1	5532	10·1	12145	43·3	21263	43·0	31024	52
9	31·1	27	34·1	1586	31·2	5621	17·8	12278	57·5	21431	66 7·4	31162	51
10	31·3	33	36·0	1633	35·4	5710	25·6	12411	47 11·8	21599	32·0	31298	50
11	26°31·6	40	27°37·9	1680	30°39·6	5800	36°33·5	12545	47°26·2	21767	66°56·8	31433	49
12	31·9	48	39·9	1728	43·9	5890	41·4	12680	40·8	21935	67 21·8	31566	48
13	32·2	56	41·9	1776	48·2	5981	49·5	12816	55·5	22104	47·0	31697	47
14	32·6	65	44·0	1825	52·5	6073	57·6	12953	48 10·4	22272	68 12·3	31826	46
15	33·0	74	46·1	1876	56·9	6166	37 5·7	13090	25·4	22442	37·8	31954	45
16	26°33·4	85	27°48·2	1927	31° 1·4	6261	37°14·0	13227	48°40·6	22611	69° 3·5	32080	44
17	33·8	96	50·3	1978	5·9	6354	22·4	13366	55·9	22780	29·3	32203	43
18	34·2	108	52·5	2030	10·4	6449	30·8	13505	49 11·4	22949	55·3	32325	42
19	34·7	120	54·7	2083	15·0	6545	39·3	13645	27·1	23120	70 21·5	32444	41
20	35·2	132	57·0	2136	19·6	6641	47·9	13786	42·8	23290	47·9	32560	40
21	26°35·8	146	27°59·3	2190	31°24·3	6738	37°56·7	13927	49°58·8	23460	71°14·4	32676	39
22	36·3	160	28 1·6	2245	29·1	6836	38 5·4	14069	50 14·9	23629	41·0	32790	38
23	36·9	175	3·9	2301	33·9	6935	14·3	14212	31·1	23800	72 7·8	32900	37
24	37·6	191	6·3	2357	38·7	7034	23·3	14355	47·6	23970	34·8	33008	36
25	38·2	207	8·7	2414	43·6	7134	32·4	14499	51 4·2	24140	73 1·9	33115	35
26	26°38·9	224	28°11·1	2471	31°48·5	7235	38°41·5	14644	51°20·9	24309	73°29·2	33219	34
27	39·6	242	13·6	2530	53·5	7337	50·8	14790	37·8	24480	56·7	33319	33
28	40·3	260	16·1	2589	58·6	7439	39 0·1	14936	54·9	24650	74 24·2	33418	32
29	41·1	279	18·7	2649	32 3·7	7543	9·5	15083	52 12·1	24820	51·9	33514	31
30	41·8	299	21·2	2709	8·8	7647	19·1	15230	29·5	24990	75 19·8	33608	30
31	26°42·6	319	28°23·8	2770	32°14·0	7751	39°28·7	15378	52°47·1	25159	75°47·8	33699	29
32	43·5	339	26·5	2832	19·3	7856	38·4	15527	53 4·9	25328	76 15·9	33787	28
33	44·3	361	29·2	2895	24·6	7962	48·3	15677	22·8	25497	44·1	33873	27
34	45·2	383	31·9	2958	30·0	8069	58·2	15827	40·9	25666	77 12·5	33956	26
35	46·1	406	34·7	3022	35·4	8177	40 8·2	15977	59·1	25835	41·0	34036	25
36	26°47·1	430	28°37·5	3087	32°40·9	8285	40°18·4	16129	54°17·5	26003	78° 9·6	34113	24
37	48·0	454	40·3	3152	46·5	8394	28·6	16281	36·2	26171	38·3	34187	23
38	49·0	479	43·1	3218	52·1	8504	38·9	16433	54·9	26339	79 7·1	34258	22
39	50·1	505	46·0	3285	57·8	8615	49·4	16587	55 13·9	26506	36·0	34328	21
40	51·1	531	49·0	3352	33 3·5	8726	59·9	16741	33·0	26673	80 5·1	34395	20
41	26°52·2	558	28°52·0	3420	33° 9·3	8838	41°10·6	16895	55°52·3	26839	80°34·2	34457	19
42	53·3	585	55·0	3489	15·1	8951	21·4	17049	56 11·8	27005	81 3·4	34517	18
43	54·4	614	58·0	3559	21·0	9064	32·2	17205	31·5	27171	32·7	34572	17
44	55·6	643	29 1·1	3629	27·0	9179	43·2	17362	51·4	27335	82 2·1	34626	16
45	56·8	672	4·2	3700	33·0	9294	54·3	17519	57 11·4	27500	31·6	34677	15
46	26°58·0	702	29° 7·4	3772	33°39·1	9410	42° 5·5	17676	57°31·6	27664	83° 1·2	34724	14
47	59·3	734	10·6	3844	45·3	9526	16·9	17834	52·0	27826	30·8	34768	13
48	27 0·5	765	13·8	3918	51·5	9643	28·3	17992	58 12·6	27988	84 0·5	34810	12
49	1·8	797	17·1	3992	57·8	9761	39·9	18151	33·3	28150	30·2	34848	11
50	3·2	830	20·4	4066	34 4·1	9880	51·6	18311	54·3	28311	85 0·0	34883	10
51	27° 4·5	864	29°23·7	4141	34°10·5	10000	43° 3·4	18471	59°15·4	28470	85°29·9	34913	9
52	5·9	898	27·1	4217	17·0	10120	15·3	18632	36·7	28629	59·8	34941	8
53	7·3	933	30·6	4294	23·5	10241	27·3	18793	58·2	28787	86 29·7	34966	7
54	8·8	969	34·1	4371	30·1	10363	39·5	18954	60 19·9	28944	59·7	34986	6
55	10·3	1005	37·6	4450	36·8	10485	51·8	19117	41·8	29101	87 29·7	35006	5
56	27°11·8	1043	29°41·1	4529	34°43·6	10608	44° 4·2	19279	61° 3·9	29257	87°59·7	35022	4
57	13·3	1080	44·7	4608	50·4	10732	16·7	19442	26·1	29410	88 29·8	35032	3
58	14·9	1119	48·4	4689	57·3	10857	29·4	19606	48·5	29563	59·8	35039	2
59	16·5	1158	52·1	4770	35 4·2	10983	42·2	19770	62 11·1	29715	89 29·9	35046	1
60	18·1	1198	55·8	4851	11·3	11109	55·1	19934	33·9	29866	90 0·0	35047	0
	11 H		10 H		9 H		8 H		7 H		6 H		m

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	26°45-0	0 27°33-4	1192 30°12-0	4828 35°28-9	11045 45°13-9	19792 62°49-2	29588 60
1	45-0	0 35-1	1232 15-8	4910 36-1	11172 26-9	19955 63 12-0	29734 59
2	45-1	1 36-7	1273 19-6	4993 43-3	11298 40-1	20118 35-1	29880 58
3	45-1	3 38-5	1315 23-5	5076 50-5	11426 53-4	20282 58-3	30025 57
4	45-2	5 40-2	1357 27-4	5161 57-9	11554 46 6-9	20446 64 21-6	30168 56
5	45-3	8 42-0	1400 31-4	5246 36 5-3	11683 20-4	20610 45-2	30309 55
6	26°45-5	12 27°43-8	1444 30°35-4	5331 36°12-8	11813 46°34-2	20775 65' 8-9	30449 54
7	45-6	16 45-7	1488 39-4	5418 20-4	11943 48-0	20940 32-8	30588 53
8	45-8	21 47-5	1533 43-5	5505 28-0	12074 47 2-0	21106 56-9	30725 52
9	46-1	27 49-5	1579 47-7	5593 35-7	12206 16-2	21272 66 21-2	30861 51
10	46-3	33 51-4	1625 51-8	5681 43-5	12338 30-4	21438 45-7	30995 50
11	26°46-6	40 27°53-4	1672 30°56-1	5771 36°51-4	12471 47°44-9	21604 67°10-3	31126 49
12	46-9	47 55-4	1720 31 0-4	5861 59-4	12605 59-4	21770 35-1	31257 48
13	47-2	56 57-4	1768 4-7	5951 37 7-4	12740 48 14-1	21937 68 0-0	31386 47
14	47-6	65 59-5	1817 9-0	6043 15-6	12875 29-0	22104 25-2	31513 46
15	48-0	74 28 1-6	1867 13-5	6135 23-8	13011 44-0	22271 50-5	31638 45
16	26°48-4	84 28° 3-7	1918 31°17-9	6228 37°32-1	13148 48°59-2	22438 69°15-9	31761 44
17	48-8	95 5-8	1969 22-5	6322 40-5	13286 49 14-5	22605 41-6	31883 43
18	49-3	107 8-0	2021 27-0	6416 48-9	13424 29-9	22773 70 7-4	32001 42
19	49-8	119 10-3	2073 31-6	6511 57-5	13563 45-5	22941 33-3	32119 41
20	50-3	132 12-5	2126 36-3	6607 38 6-1	13702 50 1-3	23108 59-4	32234 40
21	26°50-8	145 28°14-8	2180 31°41-0	6704 38°14-8	13842 50°17-2	23276 71°25-7	32346 39
22	51-4	160 17-1	2235 45-8	6801 23-6	13983 33-3	23444 52-1	32457 38
23	52-0	175 19-5	2290 50-6	6899 32-5	14125 49-5	23612 72 18-7	32566 37
24	52-6	190 21-9	2346 55-4	6998 41-5	14267 51 5-9	23780 45-5	32672 36
25	53-3	206 24-3	2403 32 0-4	7098 50-6	14410 22-4	23948 73 12-3	32776 35
26	26°53-9	223 28°26-8	2460 32° 5-3	7198 38°59-8	14553 51°39-2	24115 73°39-4	32878 34
27	54-6	241 29-3	2518 10-4	7299 39 9-1	14697 56-0	24283 74 6-6	32977 33
28	55-4	259 31-8	2577 15-4	7400 18-4	14842 52 13-0	24451 33-9	33074 32
29	56-1	278 34-3	2636 20-6	7503 27-9	14988 30-2	24618 75 1-3	33168 31
30	56-9	297 36-9	2696 25-7	7606 37-4	15134 47-6	24785 28-9	33260 30
31	26°57-7	317 28°39-6	2757 32°31-0	7710 39°47-1	15281 53° 5-1	24953 75°56-6	33349 29
32	58-6	338 42-2	2819 36-3	7815 56-8	15428 22-8	25120 76 24-5	33435 28
33	59-4	359 44-9	2881 41-6	7920 40 6-7	15576 40-7	25286 52-4	33519 27
34	27 0-3	382 47-7	2944 47-0	8027 16-6	15725 58-7	25453 77 20-5	33600 26
35	1-2	405 50-4	3008 52-5	8134 26-7	15875 54 16-9	25619 48-7	33679 25
36	27° 2-2	428 28°53-2	3072 32°58-0	8241 40°36-8	16025 54°35-3	25785 78°17-0	33755 24
37	3-2	452 56-1	3137 33 3-6	8350 47-1	16175 53-8	25951 45-5	33827 23
38	4-2	477 59-0	3203 9-2	8459 57-5	16326 55 12-5	26116 79 14-0	33898 22
39	5-2	502 29 1-9	3270 14-9	8569 41 7-9	16478 31-4	26281 42-6	33965 21
40	6-2	529 4-8	3337 20 6	8679 18-5	16631 50-5	26445 80 11-4	34029 20
41	27° 7-3	555 29° 7-8	3404 33°26-5	8790 41°29-2	16784 56° 9-7	26609 80°40-2	34091 19
42	8-5	583 10-8	3473 32-3	8902 40-0	16937 29-1	26772 81 9-1	34149 18
43	9-6	611 13-9	3542 38-3	9015 50-8	17091 48-7	26935 38-1	34205 17
44	10-8	640 17-0	3612 44-2	9129 42 1-8	17246 57 8-5	27098 82 7-2	34257 16
45	12-0	669 20-2	3683 50-3	9243 13-0	17401 28-4	27259 36-4	34307 15
46	27°13-2	699 29°23-3	3754 33°56-4	9358 42°24-2	17557 57°48-5	27420 83° 5-6	34353 14
47	14-4	730 26-5	3826 34 2-6	9474 35-5	17714 58 8-8	27581 35-0	34396 13
48	15-7	762 29-8	3899 8-8	9590 47-0	17870 29-3	27741 84 4-3	34437 12
49	17-0	794 33-1	3972 15-1	9708 58-6	18028 50-0	27899 33-8	34473 11
50	18-4	827 36-4	4047 21-5	9826 43 10-2	18186 59 10-8	28057 85 3-2	34507 10
51	27°19-8	860 29°39-8	4122 34°28-0	9944 43°22-1	18344 59°31-8	28215 85 32-8	34538 9
52	21-2	894 43-2	4197 34-5	10064 34-0	18503 53-0	28371 86 2-3	34566 8
53	22-6	929 46-7	4273 41-0	10184 46-0	18663 60 14-4	28527 32-0	34590 7
54	24-0	965 50-2	4350 47-7	10305 58-2	18823 36-0	28682 87 1-6	34610 6
55	25-5	1001 53-7	4428 54-4	10427 44 10-5	18983 57-7	28835 31-3	34629 5
56	27°27-0	1038 29°57-3	4507 35° 1-1	10549 44°22-9	19144 61°19-7	28988 88° 1-0	34643 4
57	28-6	1075 30 0-9	4586 8-0	10672 35-4	19305 41-8	29139 30-7	34655 3
58	30-2	1114 4-6	4666 14-9	10796 48-1	19467 62 4-1	29290 89 0-5	34663 2
59	31-8	1152 8-3	4747 21-9	10920 45 0-9	19629 26-5	29441 30-2	34668 1
60	33-4	1192 12-0	4828 28-9	11045 13-9	19792 49-2	29588 90 0-0	34669 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 II		1 II		2 II		3 II		4 II		5 II		
0	27° 0-0	0	27° 48-7	1187	30° 28-2	4804	35° 46-5	10982	45° 32-4	19650	63° 4-3	29311	60
1	0-0	0	50-4	1227	32-0	4886	53-7	11107	45-5	19811	27-0	29456	59
2	0-1	1	52-1	1267	35-9	4968	36 0-9	11233	58-7	19973	49-8	29599	58
3	0-1	3	53-8	1308	39-8	5051	8-2	11360	46 12-0	20134	64 12-9	29740	57
4	0-2	5	55-6	1351	43-7	5135	15-6	11487	25-4	20296	36-1	29881	56
5	0-3	8	57-4	1394	47-7	5219	23-0	11615	39-0	20459	59-5	30020	55
6	27° 0-5	12	27° 59-2	1437	30° 51-7	5305	36° 30-5	11744	46° 52-7	20622	65° 23-1	30158	54
7	0-6	16	28 1-0	1481	55-8	5391	38-1	11873	47 6-6	20785	46-8	30294	53
8	0-8	21	2-9	1526	59-9	5477	45-8	12003	20-6	20949	66 10-7	30429	52
9	1-1	27	4-9	1571	31 4-1	5565	53-6	12134	34-7	21113	34-8	30561	51
10	1-3	33	6-8	1617	8-3	5653	37 1-4	12265	49-0	21277	59-1	30692	50
11	27° 1-6	40	28° 8-8	1664	31° 12-5	5741	37° 9-3	12397	48° 3-4	21441	67° 23-5	30823	49
12	1-9	47	10-8	1712	16-8	5831	17-3	12530	17-9	21605	48-1	30952	48
13	2-2	55	12-8	1760	21-2	5921	25-4	12664	32-6	21770	68 12-9	31078	47
14	2-6	64	14-9	1809	25-6	6012	33-5	12798	47-5	21935	37-8	31202	46
15	3-0	74	17-0	1859	30-0	6104	41-8	12933	49 2-4	22100	69 2-9	31325	45
16	27° 3-4	84	28° 19-2	1909	31° 34-5	6196	37° 50-1	13069	49° 17-6	22266	69° 28-2	31445	44
17	3-8	95	21-3	1960	39-0	6289	58-5	13205	32-8	22431	53-6	31564	43
18	4-3	106	23-6	2012	43-6	6383	38 7-0	13341	48-3	22596	70 19-2	31681	42
19	4-8	119	25-8	2064	48-2	6478	15-5	13479	50 3-9	22762	44-9	31796	41
20	5-3	131	28-1	2116	52-9	6573	24-2	13618	19-6	22927	71 10-8	31909	40
21	27° 5-8	145	28° 30-4	2170	31° 57-7	6669	38° 32-9	13757	50° 35-5	23093	71° 36-9	32020	39
22	6-4	159	32-7	2224	32 2-5	6766	41-8	13897	51-5	23258	72 3-1	32129	38
23	7-0	174	35-1	2279	7-3	6864	50-7	14037	51 7-7	23424	29-4	32235	37
24	7-7	189	37-5	2335	12-2	6962	59-7	14178	24-1	23590	55-9	32339	36
25	8-3	205	39-9	2392	17-1	7061	39 8-8	14320	40-6	23755	73 22-6	32441	35
26	27° 9-0	222	28° 42-4	2449	32° 22-1	7160	39° 18-0	14462	51° 57-2	23921	73° 49-4	32541	34
27	9-7	239	44-9	2506	27-2	7261	27-3	14605	52 14-0	24086	74 16-1	32638	33
28	10-4	258	47-4	2565	32-3	7362	36-7	14749	31-0	24251	43-4	32732	32
29	11-2	276	50-0	2624	37-4	7464	46-2	14893	48-2	24417	75 10-6	32825	31
30	12-0	296	52-6	2684	42-6	7566	55-7	15038	53 5-5	24582	37-9	32915	30
31	27° 12-8	316	28° 55-3	2744	32° 47-9	7670	40° 5-4	15183	53° 22-9	24747	76° 5-3	33003	29
32	13-6	337	57-9	2806	53-2	7774	15-2	15329	40-6	24912	32-9	33087	28
33	14-5	358	29 0-7	2868	58-6	7878	25-0	15476	58-4	25076	77 0-6	33169	27
34	15-4	380	3-4	2931	33 4-0	7984	35-0	15623	54 16-4	25240	28-4	33249	26
35	16-3	403	6-2	2994	9-5	8090	45-1	15771	34-5	25404	56-4	33326	25
36	27° 17-3	426	29° 9-0	3058	33° 15-0	8197	40° 55-2	15920	54° 52-8	25568	78° 24-4	33400	24
37	18-3	450	11-9	3122	20-6	8305	41 5-5	16070	55 11-3	25731	52-6	33472	23
38	19-3	475	14-8	3188	26-3	8413	15-9	16220	29-9	25893	79 20-8	33540	22
39	20-3	500	17-7	3254	32-0	8522	26-4	16370	48-7	26056	49-2	33606	21
40	21-4	526	20-7	3320	37-8	8632	36-9	16521	56 7-7	26218	80 17-6	33669	20
41	27° 22-5	553	29° 23-7	3388	33° 43-6	8743	41° 47-6	16672	56° 26-9	26380	80° 46-1	33729	19
42	23-6	580	26-7	3456	49-5	8854	58-4	16824	46-2	26541	81 14-8	33786	18
43	24-8	608	29-8	3525	55-5	8966	42 9-3	16976	57 5-7	26701	43-5	33841	17
44	25-9	637	32-9	3595	34 1-5	9079	20-3	17129	25-4	26861	82 12-3	33892	16
45	27-1	666	36-1	3665	7-6	9192	31-5	17284	45-2	27020	41-1	33941	15
46	27° 28-4	696	29° 39-3	3736	34° 13-7	9307	42° 42-7	17438	58° 5-3	27179	83° 10-1	33986	14
47	29-6	727	42-5	3808	19-9	9422	54-1	17593	25-5	27337	39-1	34028	13
48	30-9	758	45-8	3880	26-2	9537	43 5-6	17749	45-8	27494	84 8-1	34068	12
49	32-2	790	49-1	3953	32-5	9654	17-1	17904	59 6-4	27651	37-2	34104	11
50	33-6	823	52-5	4026	38-9	9771	28-8	18061	27-1	27806	85 6-4	34137	10
51	27° 35-0	856	29° 55-8	4101	34° 45-4	9889	43° 40-6	18218	59° 48-0	27961	85° 35-6	34167	9
52	36-4	890	59-3	4176	51-9	10007	52-6	18375	60 9-1	28115	86 4-9	34194	8
53	37-8	925	30 2-8	4253	58-5	10127	44 4-6	18533	30-4	28268	34-2	34217	7
54	39-3	961	6-3	4330	35 5-1	10247	16-8	18691	51-9	28421	87 3-5	34238	6
55	40-8	996	9-8	4407	11-8	10368	29-1	18850	61 13-5	28571	32-9	34255	5
56	27° 42-3	1033	30° 13-4	4485	35° 18-7	10489	44° 41-5	19009	61° 35-3	28721	88° 2-3	34270	4
57	43-8	1070	17-1	4563	25-5	10611	54-0	19169	57-3	28871	31-7	34281	3
58	45-4	1108	20-7	4643	32-5	10734	45 6-7	19329	62 19-4	29019	89 1-1	34289	2
59	47-0	1147	24-5	4723	39-5	10858	19-5	19489	41-8	29165	30-6	34294	1
60	48-7	1187	28-2	4804	46-5	10982	32-4	19650	63 4-3	29311	90 0-0	34295	0
	11 II	10 II	9 II	8 II	7 II	6 II	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	27°15.0	0	28° 4.0	1181	30°44.4	4780	36° 4.1	10919	45°50.9	19508	63°19.2	29036	60
1	15.0	0	5.7	1221	48.2	4861	11.3	11043	46 4.0	19667	41.7	29178	59
2	15.1	1	7.4	1262	52.1	4943	18.5	11168	17.2	19827	64 4.4	29319	58
3	15.1	3	9.2	1303	56.0	5026	25.8	11293	30.5	19987	27.3	29458	57
4	15.2	5	10.9	1345	31 0.0	5109	33.2	11419	43.9	20147	50.4	29596	56
5	15.3	8	12.7	1387	4.0	5193	40.7	11546	57.5	20308	65 13.6	29732	55
6	27°15.5	12	28°14.6	1430	31° 8.0	5278	36°48.3	11674	47°11.2	20469	65°37.0	29868	54
7	15.7	16	16.4	1474	12.1	5363	55.9	11803	25.0	20630	66 0.6	30002	53
8	15.9	21	18.3	1519	16.3	5449	37 3.6	11932	39.0	20792	24.3	30134	52
9	16.1	27	20.3	1564	20.5	5536	11.4	12061	53.1	20954	48.3	30265	51
10	16.3	33	22.2	1610	24.7	5624	19.2	12192	48 7.4	21116	67 12.3	30394	50
11	27°16.6	40	28°24.2	1657	31°28.9	5712	37°27.1	12323	48°21.7	21278	67°36.6	30521	49
12	16.9	47	26.2	1704	33.3	5801	35.1	12455	36.3	21441	68 1.0	30647	48
13	17.3	55	28.3	1752	37.6	5891	43.2	12587	51.0	21604	25.6	30771	47
14	17.6	64	30.4	1801	42.0	5981	51.4	12720	49 5.8	21767	50.3	30894	46
15	18.0	73	32.5	1850	46.5	6072	59.7	12854	20.7	21930	69 15.2	31014	45
16	27°18.4	84	28°34.7	1900	31°51.0	6164	38° 8.0	12989	49°35.8	22093	69°40.3	31133	44
17	18.9	94	36.9	1950	55.6	6257	16.4	13124	51.1	22256	70 5.5	31249	43
18	19.3	106	39.1	2002	32 0.2	6350	24.9	13260	50 6.5	22419	30.9	31364	42
19	19.8	118	41.3	2054	4.8	6444	33.5	13396	22.0	22583	56.4	31477	41
20	20.3	131	43.6	2106	9.6	6539	42.2	13534	37.7	22746	71 22.1	31587	40
21	27°20.9	144	28°45.9	2160	32°14.3	6634	38°51.0	13672	50°53.6	22910	71°47.9	31696	39
22	21.5	158	48.3	2214	19.1	6731	59.8	13810	51 9.6	23073	72 13.9	31803	38
23	22.1	173	50.7	2269	24.0	6827	39 8.8	13949	25.8	23237	40.0	31907	37
24	22.7	188	53.1	2324	28.9	6925	17.8	14089	42.0	23400	73 6.3	32009	36
25	23.3	204	55.5	2380	33.9	7023	26.9	14229	58.5	23564	32.7	32109	35
26	27°24.0	221	28°58.0	2437	32°38.9	7122	39°36.1	14370	52°15.1	23727	73°59.2	32207	34
27	24.7	239	29 0.5	2495	43.9	7222	45.5	14512	31.9	23891	74 25.9	32302	33
28	25.5	256	3.1	2553	49.1	7323	54.9	14655	48.8	24054	52.7	32395	32
29	26.3	275	5.7	2612	54.2	7425	40 4.4	14798	53 6.0	24217	75 19.7	32486	31
30	27.1	294	8.3	2671	59.5	7527	13.9	14941	23.2	24379	46.7	32574	30
31	27°27.9	314	29°11.0	2731	33° 4.7	7629	40°23.6	15085	53°40.6	24542	76°13.9	32659	29
32	28.7	335	13.7	2792	10.1	7732	33.4	15230	58.2	24704	41.2	32742	28
33	29.6	356	16.4	2854	15.5	7836	43.3	15376	54 15.9	24867	77 8.7	32823	27
34	30.5	378	19.2	2916	20.9	7941	53.3	15522	33.8	25029	36.2	32901	26
35	31.4	401	21.9	2979	26.4	8046	41 3.4	15669	51.9	25190	78 3.9	32976	25
36	27°32.4	424	29°24.8	3043	33°32.0	8153	41°13.5	15816	55°10.2	25351	78°31.6	33049	24
37	33.4	448	27.7	3107	37.6	8260	23.8	15964	28.6	25512	59.5	33119	23
38	34.4	473	30.6	3172	43.3	8367	34.2	16112	47.1	25673	79 27.5	33186	22
39	35.5	498	33.5	3238	49.0	8476	44.7	16261	56 5.9	25833	55.5	33251	21
40	36.5	524	36.5	3304	54.8	8585	55.3	16410	24.8	25992	80 23.7	33312	20
41	27°37.6	550	29°39.5	3371	34° 0.7	8695	42° 6.0	16560	56°43.9	26151	80°52.0	33371	19
42	38.8	578	42.6	3439	6.6	8805	16.8	16711	57 3.1	26310	81 20.3	33427	18
43	39.9	605	45.7	3508	12.6	8917	27.7	16862	22.5	26468	48.7	33481	17
44	41.1	634	48.8	3577	18.6	9029	38.8	17014	42.1	26626	82 17.2	33531	16
45	42.3	663	52.0	3647	24.8	9141	49.9	17166	58 1.9	26782	45.8	33578	15
46	27°43.5	693	29°55.2	3718	34°30.9	9255	43° 1.1	17319	58°21.8	26938	83°14.4	33623	14
47	44.8	724	58.5	3789	37.1	9369	12.5	17473	41.9	27094	43.1	33664	13
48	46.1	755	30 1.8	3861	43.4	9484	24.0	17627	59 2.2	27249	84 11.9	33702	12
49	47.5	787	5.1	3934	49.8	9600	35.6	17781	22.7	27403	40.7	33738	11
50	48.8	819	8.5	4007	56.2	9716	47.3	17936	43.3	27556	85 9.5	33770	10
51	27°50.2	852	30°11.9	4081	35° 2.7	9833	43°59.1	18091	60° 4.1	27708	85°38.5	33799	9
52	51.6	886	15.3	4156	9.2	9951	44 11.0	18246	25.1	27859	86 7.4	33826	8
53	53.1	921	18.8	4232	15.8	10069	23.1	18402	46.0	28010	36.4	33849	7
54	54.5	956	22.4	4308	22.5	10188	35.3	18559	61 7.5	28160	87 5.4	33869	6
55	56.0	992	25.9	4385	29.3	10308	47.6	18716	29.0	28309	34.5	33887	5
56	27°57.6	1028	30°29.5	4463	35°36.1	10429	45° 0.0	18874	61°50.7	28456	88° 3.6	33900	4
57	59.1	1066	33.2	4541	43.0	10550	12.5	19032	62 12.6	28603	32.7	33911	3
58	28 0.7	1103	36.9	4620	50.0	10672	25.2	19190	34.5	28748	89 1.8	33919	2
59	2.3	1142	40.6	4700	57.0	10795	38.0	19349	56.8	28893	31.0	33924	1
60	4.0	1181	44.4	4780	36 4.1	10919	50.9	19508	63 19.2	29036	90 0.0	33925	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	27°30·0	0	28°19·3	1176	31° 0·6	4756	36°21·6	10855	46° 9·3	19365	63°33·8	28763	60
1	30·0	0	21·0	1215	4·4	4837	28·8	10978	22·3	19523	56·2	28902	59
2	30·1	1	22·7	1256	8·3	4919	36·1	11102	35·5	19682	64 18·8	29041	58
3	30·1	3	24·5	1297	12·3	5001	43·4	11227	48·8	19839	41·6	29178	57
4	30·2	5	26·3	1338	16·2	5083	50·8	11352	47 2·3	19997	65 4·5	29314	56
5	30·3	8	28·1	1381	20·3	5167	58·3	11478	15·8	20157	27·5	29447	55
6	27°30·5	12	28°29·9	1424	31°24·3	5251	37° 5·9	11604	47°29·5	20316	65°50·8	29580	54
7	30·7	16	31·8	1468	28·4	5336	13·5	11732	43·3	20476	66 14·2	29712	53
8	30·9	21	33·7	1512	32·6	5421	21·3	11860	57·3	20636	37·8	29841	52
9	31·1	26	35·6	1557	36·8	5508	29·1	11989	48 11·4	20796	67 1·5	29970	51
10	31·3	33	37·6	1603	41·0	5595	36·9	12118	25·6	20956	25·4	30096	50
11	27 31·6	39	28°39·6	1649	31°45·3	5683	37°44·9	12248	48°40·0	21116	67°49·5	30222	49
12	31·9	47	41·7	1696	49·7	5771	52·9	12378	54·5	21277	68 13·7	30345	48
13	32·3	55	43·7	1744	54·1	5860	38 1·0	12510	49 9·1	21438	38·1	30468	47
14	32·6	64	45·8	1792	58·5	5950	9·2	12642	23·9	21598	69 2·6	30588	46
15	33·0	73	48·0	1841	32 3·0	6041	17·5	12775	38·9	21759	27·3	30705	45
16	27°33·4	83	28°50·1	1890	32° 7·5	6132	38°25·9	12909	49°53·9	21920	69°52·2	30822	44
17	33·9	94	52·3	1941	12·1	6224	34·3	13043	50 9·2	22082	70 17·2	30937	43
18	34·4	105	54·6	1992	16·7	6317	42·8	13178	24·5	22244	42·4	31049	42
19	34·9	118	56·8	2044	21·4	6410	51·5	13313	40·1	22405	71 7·7	31160	41
20	35·4	130	59·1	2096	26·1	6504	39 0·2	13449	55·7	22566	33·2	31268	40
21	27°35·9	143	29° 1·5	2150	32°30·9	6599	39° 8·9	13586	51°11·5	22727	71°58·8	31375	39
22	36·5	158	3·8	2204	35·8	6695	17·8	13723	27·5	22889	72 24·5	31480	38
23	37·1	172	6·2	2258	40·6	6791	26·8	13861	43·6	23050	50·4	31582	37
24	37·7	187	8·6	2313	45·6	6888	35·8	14000	59·9	23212	73 16·4	31682	36
25	38·4	203	11·1	2369	50·6	6986	45·0	14139	52 16·3	23373	42·6	31780	35
26	27°39·1	220	29°13·6	2425	32°55·6	7085	39°54·2	14278	52°32·9	23534	74° 8·9	31874	34
27	39·8	237	16·2	2483	33 0·7	7184	40 3·5	14419	49·6	23695	35·4	31969	33
28	40·6	255	18·7	2541	5·8	7283	13·0	14560	53 6·5	23856	75 1·9	32059	32
29	41·3	274	21·3	2599	11·0	7384	22·5	14702	23·6	24017	28·6	32149	31
30	42·1	293	24·0	2658	16·3	7485	32·1	14844	40·8	24177	55·4	32236	30
31	27°43·0	313	29°26·6	2718	33°21·6	7587	40°41·8	14987	53°58·1	24338	76°22·4	32319	29
32	43·8	334	29·4	2779	26·9	7690	51·6	15131	54 15·6	24499	49·4	32401	28
33	44·7	355	32·1	2840	32·3	7793	41 1·5	15275	33·3	24658	77 16·6	32480	27
34	45·6	376	34·9	2902	37·8	7897	11·5	15420	51·2	24818	43·9	32555	26
35	46·5	399	37·7	2965	43·4	8002	21·6	15565	55 9·2	24977	78 11·3	32630	25
36	27°47·5	422	29°40·6	3028	33°49·0	8108	41°31·8	15711	55°27·3	25136	78 38·8	32702	24
37	48·5	446	43·5	3092	54·6	8214	42·1	15858	45·7	25294	79 6·4	32770	23
38	49·5	470	46·4	3156	34 0·3	8321	52·5	16005	56 4·2	25452	34·1	32836	22
39	50·6	496	49·3	3222	6·1	8429	42 3·0	16152	22·8	25610	80 1·8	32899	21
40	51·6	521	52·3	3288	11·9	8538	13·6	16300	41·7	25767	29·7	32959	20
41	27°52·8	548	29°55·4	3355	34°17·8	8647	42°24·3	16449	57° 0·7	25924	80°57·7	33017	19
42	53·9	575	58·5	3423	23·7	8756	35·1	16599	19·8	26080	81 25·7	33073	18
43	55·1	603	30 1·6	3491	29·7	8867	46·0	16748	39·2	26236	53·9	33124	17
44	56·3	631	4·7	3559	35·8	8978	57·1	16898	58·7	26391	82 22·1	33173	16
45	57·5	660	7·9	3629	41·9	9090	43 8·2	17049	58 18·3	26545	50·3	33219	15
46	27°58·7	690	30°11·1	3699	34°48·1	9203	43°19·5	17200	58°38·2	26699	83°18·7	33262	14
47	28 0·0	720	14·4	3770	54·3	9316	30·8	17352	58·2	26852	47·1	33304	13
48	1·3	751	17·7	3842	35 0·7	9430	42·3	17504	59 18·4	27004	84 15·5	33342	12
49	2·6	783	21·1	3914	7·0	9545	53·9	17657	38·7	27156	44·1	33376	11
50	4·0	815	24·5	3987	13·5	9661	44 5·6	17810	59·2	27307	85 12·6	33407	10
51	28° 5·4	849	30°27·9	4061	35°20·0	9777	44°17·5	17964	60°19·9	27457	85°41·2	33436	9
52	6·8	883	31·4	4135	26·6	9894	29·4	18118	40·8	27605	86 9·9	33463	8
53	8·3	917	34·9	4210	33·2	10012	41·5	18273	61 1·8	27754	38·5	33485	7
54	9·8	952	38·4	4286	39·9	10130	53·6	18427	23·0	27902	87 7·3	33504	6
55	11·3	987	42·0	4363	46·7	10249	45 5·9	18583	44·4	28048	36·0	33521	5
56	28°12·8	1023	30°45·6	4440	35°53·5	10369	45°18·4	18738	62° 5·9	28193	88° 4·8	33535	4
57	14·4	1061	49·3	4518	36 0·4	10489	30·9	18893	27·7	28337	33·6	33546	3
58	16·0	1099	53·0	4596	7·4	10610	43·6	19050	49·6	28479	89 2·4	33553	2
59	17·6	1137	56·8	4676	14·5	10732	56·4	19208	63 11·6	28622	31·2	33558	1
60	19·3	1176	31 0·6	4756	21·6	10855	46 9·3	19365	33·8	28763	90 0·0	33559	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	27°45'0	0	28°34'6	1170	31°16'8	4732	36°39'1	10790	46°27'5	19224	63°48'3	28491	60
1	45'0	0	36'3	1210	20'6	4812	46'3	10913	40'6	19380	64 10'6	28628	59
2	45'1	1	38'0	1250	24'5	4893	53'6	11036	53'7	19536	33'0	28764	58
3	45'1	3	39'8	1291	28'5	4975	37 0'9	11160	47 7'0	19692	55'6	28899	57
4	45'2	5	41'6	1332	32'5	5057	8'4	11284	20'4	19849	65 18'4	29032	56
5	45'3	8	43'4	1374	36'5	5140	15'9	11409	34'0	20006	41'3	29164	55
6	27°45'5	12	28°45'3	1417	31°40'6	5224	37°23'5	11535	47°47'6	20164	66° 4'4	29295	54
7	45'7	16	47'2	1461	44'7	5308	31'2	11661	48 1'5	20321	27'6	29424	53
8	45'9	21	49'1	1505	48'9	5393	38'9	11788	15'4	20479	51'0	29552	52
9	46'1	26	51'0	1550	53'1	5479	46'8	11916	29'5	20637	67 14'6	29678	51
10	46'3	32	53'0	1595	57'4	5566	54'6	12044	43'7	20796	38'3	29802	50
11	27°46'6	39	28°55'0	1641	32° 1'7	5653	38° 2'6	12173	48°58'1	20954	68° 2'2	29925	49
12	46'9	47	57'1	1688	6'1	5741	10'6	12303	49 12'6	21113	26'2	30046	48
13	47'3	55	59'2	1735	10'5	5830	18'8	12433	27'2	21272	50'4	30166	47
14	47'6	64	29 1'3	1783	14'9	5919	27'0	12565	42'0	21431	69 14'8	30284	46
15	48'0	73	3'4	1832	19'5	6009	35'3	12697	56'9	21590	39'3	30400	45
16	27°48'4	83	29° 5'6	1882	32°24'0	6100	38°43'7	12829	50°11'9	21749	70° 3'9	30514	44
17	48'9	94	7'8	1932	28'6	6191	52'1	12962	27'1	21908	28'6	30626	43
18	49'4	105	10'1	1983	33'3	6284	39 0'7	13095	42'5	22067	53'6	30737	42
19	49'9	117	12'3	2034	38'0	6377	9'3	13229	57'9	22227	71 18'8	30845	41
20	50'4	130	14'6	2086	42'7	6470	18'0	13364	51 13'6	22386	44'1	30952	40
21	27°51'0	143	29°17'0	2139	32°47'5	6564	39°26'8	13500	51°29'4	22545	72° 9'5	31057	39
22	51'5	157	19'4	2193	52'4	6659	35'7	13636	45'3	22705	35'0	31159	38
23	52'1	171	21'8	2247	57'3	6755	44'7	13773	52 1'4	22864	73 0'7	31260	37
24	52'8	187	24'2	2302	33 2'2	6851	53'8	13910	17'6	23023	26'4	31358	36
25	53'5	203	26'7	2358	7'2	6948	40 3'0	14048	34'0	23183	52'4	31454	35
26	27°54'2	219	29°29'2	2414	33°12'3	7046	40°12'2	14187	52°50'5	23342	74°18'5	31548	34
27	54'9	236	31'8	2471	17'4	7145	21'5	14326	53 7'2	23500	44'7	31639	33
28	55'6	254	34'4	2528	22'6	7244	31'0	14466	24'0	23659	75 11'0	31729	32
29	56'4	273	37'0	2586	27'8	7344	40'5	14607	41'0	23818	37'4	31816	31
30	57'2	292	39'6	2645	33'1	7445	50'1	14748	58'2	23976	76 4'0	31900	30
31	27°58'0	312	29°42'3	2705	33°38'4	7546	40°59'8	14889	54°15'5	24135	76°30'7	31982	29
32	58'9	332	45'0	2765	43'8	7648	41 9'7	15031	32'9	24293	57'5	32062	28
33	59'8	353	47'8	2826	49'2	7751	19'6	15174	50'5	24450	77 24'4	32140	27
34	28 0'7	375	50'6	2888	54'7	7854	29'6	15318	55 8'3	24607	51'4	32214	26
35	1'6	397	53'4	2950	34 0'3	7958	39'7	15462	26'3	24764	78 18'6	32287	25
36	28° 2'6	420	29°56'3	3013	34° 5'9	8063	41°49'9	15606	55°44'4	24921	78°45'8	32357	24
37	3'6	444	59'2	3077	11'5	8169	42 0'2	15751	56 2'6	25077	79 13'1	32424	23
38	4'6	468	30 2'1	3141	17'3	8275	10'6	15897	21'1	25233	40'5	32488	22
39	5'7	493	5'1	3206	23'1	8382	21'1	16043	39'6	25388	80 8'0	32550	21
40	6'8	519	8'1	3272	28'9	8490	31'7	16190	58'4	25543	35'6	32609	20
41	28° 7'9	545	30°11'2	3339	34°34'8	8598	42°42'5	16337	57°17'3	25698	81° 3'3	32666	19
42	9'0	572	14'3	3406	40'8	8707	53'3	16485	36'4	25852	31'1	32720	18
43	10'2	600	17'4	3474	46'8	8817	43 4'3	16633	55'6	26005	58'9	32771	17
44	11'4	628	20'6	3542	52'9	8928	15'3	16782	58 15'0	26158	82 26'8	32819	16
45	12'6	657	23'8	3611	59'0	9039	26'5	16931	34'6	26310	54'8	32864	15
46	28°13'9	687	30°27'1	3681	35° 5'2	9151	43°37'7	17081	58°54'3	26461	83°22'8	32907	14
47	15'2	717	30'4	3752	11'5	9263	49'1	17231	59 14'3	26612	51'0	32947	13
48	16'5	748	33'7	3823	17'8	9377	44 0'6	17382	34'3	26762	84 19'2	32984	12
49	17'8	779	37'0	3895	24'2	9491	12'2	17533	54'6	26911	47'3	33018	11
50	19'2	812	40'4	3968	30'7	9605	23'9	17685	60 15'0	27059	85 15'6	33049	10
51	28°20'6	845	30°43'9	4041	35°37'2	9721	44°35'7	17837	60°35'6	27207	85°43'9	33077	9
52	22'0	878	47'4	4115	43'8	9837	47'6	17989	56'3	27354	86 12'2	33102	8
53	23'5	912	50'9	4189	50'5	9954	59'7	18142	61 17'3	27499	40'6	33124	7
54	25'0	947	54'5	4265	57'2	10071	45 11'9	18296	38'3	27644	87 9'1	33143	6
55	26'5	983	58'1	4341	36 4'0	10189	24'2	18449	59'6	27788	37'6	33160	5
56	28°28'1	1019	31° 1'7	4418	36°10'9	10308	45°36'6	18603	62°21'0	27931	88° 6'0	33173	4
57	29'7	1056	5'4	4495	17'8	10428	49'1	18758	42'6	28073	34'5	33184	3
58	31'3	1093	9'1	4573	24'8	10548	46 1'8	18913	63 4'3	28213	89 3'0	33191	2
59	32'9	1131	12'9	4652	31'9	10669	14'6	19068	26'2	28353	31'5	33196	1
60	34'6	1170	16'8	4732	39'1	10790	27'5	19224	48'3	28491	90 0'0	33197	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	28° 0-0	0	28°49-9	1165	31°32-9	4707	36°56-5	10726	46°45-6	19082	64° 2-7	28222	60
1	0-0	0	51-6	1204	36-8	4787	37 3-7	10848	58-7	19236	24-8	28357	59
2	0-1	1	53-3	1244	40-7	4868	11-0	10970	47 11-8	19390	47-1	28490	58
3	0-1	3	55-1	1285	44-7	4949	18-4	11093	25-1	19545	65 9-5	28623	57
4	0-2	5	56-9	1326	48-7	5030	25-9	1121C	38-5	19700	32-1	28754	56
5	0-3	8	58-8	1368	52-8	5113	33-4	11340	52-0	19856	54-9	28883	55
6	28° 0-5	12	29° 0-6	1410	31°56-9	5197	37°41-0	11464	48° 5-7	20012	66°17-8	29012	54
7	0-7	16	2-5	1454	32 1-0	5281	48-7	11590	19-5	20167	40-9	29138	53
8	0-9	21	4-5	1498	5-2	5365	56-5	11716	33-4	20323	67 4-1	29263	52
9	1-1	26	6-4	1542	9-5	5451	38 4-3	11843	47-5	20479	27-5	29387	51
10	1-4	32	8-4	1587	13-7	5537	12-2	11970	49 1-7	20636	51-0	29509	50
11	28° 1-6	39	29°10-4	1633	32°18-1	5623	38°20-2	12098	49°16-0	20792	68°14-7	29631	49
12	2-0	46	12-5	1680	22-5	5711	28-3	12227	30-5	20949	38-6	29750	48
13	2-3	54	14-6	1727	26-9	5799	36-5	12356	45-1	21106	69 2-6	29867	47
14	2-7	63	16-7	1775	31-4	5887	44-7	12486	59-8	21263	26-8	29983	46
15	3-1	72	18-9	1824	35-9	5977	53-0	12617	50 14-7	21420	51-1	30096	45
16	28° 3-5	83	29°21-1	1873	32°40-5	6067	39° 1-4	12748	50°29-8	21577	70°15-5	30209	44
17	3-9	93	23-3	1923	45-1	6158	9-9	12880	44-9	21734	40-1	30319	43
18	4-4	104	25-5	1973	49-8	6250	18-4	13013	51 0-2	21892	71 4-9	30427	42
19	4-9	116	27-8	2025	54-5	6342	27-1	13146	15-7	22049	29-8	30534	41
20	5-4	129	30-2	2077	59-2	6435	35-8	13280	31-3	22207	54 8	30638	40
21	28° 6-0	142	29°32-5	2129	33° 4-1	6529	39°44-7	13414	51°47-0	22364	72°20-0	30741	39
22	6-6	156	34-9	2182	8-9	6623	53-6	13548	52 2-9	22520	45-3	30842	38
23	7-2	171	37-3	2236	13-9	6719	40 2-6	13684	18-9	22678	73 10-8	30940	37
24	7-8	186	39-8	2291	18-8	6815	11-7	13821	35-1	22835	36-3	31037	36
25	8-5	202	42-3	2346	23-9	6911	20-8	13958	51-5	22992	74 2-0	31131	35
26	28° 9-2	218	29°44-8	2402	33°28-9	7008	40°30-1	14095	53° 7-9	23150	74°27-9	31223	34
27	9-9	235	47-4	2459	34-1	7106	39-5	14233	24-6	23306	53-8	31313	33
28	10-7	253	50-0	2516	39-3	7204	48-9	14372	41-4	23463	75 19-9	31400	32
29	11-5	271	52-6	2574	44-5	7304	58-5	14511	58-3	23619	46-1	31485	31
30	12-3	290	55-3	2633	49-8	7404	41 8-1	14651	54 15-4	23775	76 12-5	31568	30
31	28°13-1	310	29°58-0	2692	33°55-2	7504	41°17-8	14791	54°32-6	23931	76°38-9	31649	29
32	14-0	331	30 0-7	2752	34 0-6	7606	27-7	14932	50-0	24087	77 5-4	31727	28
33	14-9	351	3-5	2812	6-0	7708	37-6	15074	55 7-6	24243	32-1	31803	27
34	15-8	373	6-3	2874	11-5	7811	47-6	15216	25-3	24398	58-9	31877	26
35	16-7	395	9-2	2936	17-1	7914	57-7	15358	43-2	24553	78 25-7	31947	25
36	28°17-7	419	30°12-0	2998	34°22-8	8018	42° 7-9	15501	56° 1-2	24707	78°52-7	32016	24
37	18-7	442	15-0	3062	28-4	8123	18-3	15645	19-4	24861	79 19-7	32082	23
38	19-8	467	17-9	3126	34-2	8229	28-7	15789	37-8	25014	46-9	32146	22
39	20-8	491	20-9	3191	40-0	8335	39-2	15934	56-3	25167	80 14-1	32205	21
40	21-9	516	23-9	3256	45-9	8442	49-8	16080	57 14-9	25320	41-5	32263	20
41	28°23-0	543	30°27-0	3322	34°51-8	8550	43° 0-6	16225	57°33-8	25472	81° 8-9	32319	19
42	24-2	569	30-1	3389	57-8	8658	11-4	16371	52-8	25624	36-4	32372	18
43	25-4	597	33-3	3456	35 3-8	8767	22-4	16518	58 11-9	25775	82 3-9	32422	17
44	26-6	625	36-5	3524	9-9	8876	33-4	16665	31-2	25925	31-6	32469	16
45	27-8	654	39-7	3593	16-1	8987	44-6	16813	50-7	26075	59-3	32513	15
46	28°29-1	684	30°43-0	3663	35°22-3	9098	43°55-8	16962	59°10-4	26225	83°27-0	32555	14
47	30-4	714	46-3	3733	28-6	9210	44 7-2	17110	30-2	26373	54-8	32594	13
48	31-7	744	49-6	3803	35-0	9323	18-7	17258	50-2	26520	84 22-7	32630	12
49	33-0	776	53-0	3875	41-4	9436	30-3	17409	60 10-3	26667	50-6	32663	11
50	34-4	808	56-4	3947	47-9	9550	42-0	17560	30-6	26813	85 18-6	32693	10
51	28°35-8	841	30°59-9	4020	35°54-5	9664	44°53-9	17710	60°51-1	26958	85°46-6	32721	9
52	37-3	874	31 3-4	4094	36 1-1	9780	45 5-8	17860	61 11-7	27102	86 14-7	32746	8
53	38-7	908	6-9	4168	7-8	9896	17-9	18012	32-5	27246	42-8	32768	7
54	40-2	943	10-5	4243	14-5	10012	30-0	18164	53-5	27390	87 10-9	32787	6
55	41-8	978	14-1	4319	21-3	10129	42-3	18316	62 14-6	27530	39-0	32802	5
56	28°43-3	1014	31°17-8	4395	36°28-2	10247	45°54-7	18469	62°35-9	27670	88° 7-2	32816	4
57	44-9	1051	21-5	4472	35-2	10366	46 7-3	18621	57-3	27810	35-4	32826	3
58	46-5	1088	25-3	4550	42-2	10486	19-9	18774	63 18-9	27949	89 3-6	32834	2
59	48-2	1126	29-1	4628	49-3	10606	32-7	18928	40-7	28086	31 8	32837	1
60	49-9	1165	32-9	4707	56-5	10726	45-6	19082	64 2-7	28222	90 0-0	32839	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	28°15'0	0	29° 5'2	1159	31°49'0	4683	37°13'8	10662	47° 3'6	18940	64°16'8	27954	60
1	15'0	0	6'9	1198	52'9	4762	21'1	10782	16'6	19092	38'8	28086	59
2	15'1	1	8'6	1238	56'9	4842	28'4	10904	29'8	19245	65 0'9	28218	58
3	15'1	3	10'4	1278	32 0'9	4923	35'8	11025	43'1	19398	23'2	28348	57
4	15'2	5	12'2	1319	4'9	5005	43'3	11148	56'5	19551	45'7	28477	56
5	15'3	8	14'1	1361	9'0	5087	50'9	11271	48 9'9	19705	66 8'3	28604	55
6	28°15'5	12	29°16'0	1404	32°13'1	5169	37°58'5	11395	48°23'6	19859	66°31'0	28730	54
7	15'7	16	17'9	1447	17'3	5253	38 6'2	11519	37'4	20013	53'9	28855	53
8	15'9	21	19'8	1490	21'5	5337	14'0	11644	51'3	20167	67 17'0	28978	52
9	16'1	26	21'8	1535	25'7	5422	21'9	11770	49 5'4	20321	40'2	29099	51
10	16'4	32	23'8	1580	30'1	5507	29'8	11896	19'5	20476	68 3'6	29219	50
11	28°16'6	39	29°25'8	1625	32°34'4	5594	38°37'8	12023	49°33'8	20630	68°27'1	29338	49
12	17'0	46	27'9	1672	38'8	5680	45'9	12151	48'3	20785	50'8	29455	48
13	17'3	54	30'0	1719	43'3	5768	54'1	12279	50 2'9	20941	69 14'6	29570	47
14	17'7	63	32'1	1766	47'8	5856	39 2'3	12408	17'6	21096	38'6	29684	46
15	18'1	72	34'3	1815	52'3	5945	10'7	12537	32'4	21251	70 2'7	29796	45
16	28°18'5	82	29°36'5	1864	32°56'9	6035	39°19'1	12667	50°47'5	21406	70°27'0	29906	44
17	19'0	93	38'8	1913	33 1'5	6125	27'6	12798	51 2'6	21561	51'4	30014	43
18	19'4	104	41'0	1964	6'2	6216	36'2	12930	17'9	21716	71 15'9	30121	42
19	19'9	116	43'3	2015	11'0	6308	44'8	13062	33'3	21872	40'6	30225	41
20	20'5	128	45'7	2066	15'8	6401	53'6	13195	48'8	22027	72 5'4	30327	40
21	28°21'0	141	29°48'0	2119	33°20'6	6494	40° 2'4	13328	52° 4'5	22183	72°30'4	30428	39
22	21'6	155	50'4	2172	25'5	6587	11'3	13461	20'4	22338	55'5	30527	38
23	22'2	170	52'9	2225	30'4	6682	20'4	13596	36'4	22493	73 20'7	30623	37
24	22'9	185	55'3	2280	35'4	6777	29'5	13731	52'5	22648	46'1	30718	36
25	23'6	201	57'8	2335	40'5	6873	38'7	13867	53 8'8	22803	74 11'5	30810	35
26	28°24'3	217	30° 0'4	2390	33°45'6	6970	40°47'9	14003	53°25'2	22958	74°37'2	30900	34
27	25'0	234	3'0	2447	50'7	7067	57'3	14140	41'8	23113	75 2'9	30989	33
28	25'7	252	5'6	2504	56'0	7165	41 6'7	14277	58'6	23267	28'7	31074	32
29	26'5	270	8'2	2561	34 1'2	7263	16'3	14415	54 15'4	23421	54'7	31158	31
30	27'3	289	10'9	2619	6'5	7363	26'0	14554	32'5	23575	76 20'8	31239	30
31	28°28'2	309	30°13'6	2678	34°11'9	7463	41°35'7	14693	54°49'7	23729	76°47'0	31319	29
32	29'1	329	16'4	2738	17'3	7564	45'6	14832	55 7'0	23883	77 13'3	31395	28
33	30'0	350	19'2	2798	22'8	7665	55'5	14972	24'5	24036	39'7	31470	27
34	30'9	371	22'0	2859	28'4	7767	42 5'5	15113	42'2	24189	78 6'2	31542	26
35	31'8	393	24'9	2921	34'0	7870	15'7	15255	56 0'0	24342	32'8	31611	25
36	28°32'8	416	30°27'8	2983	34°39'6	7973	42°25'9	15397	56°17'9	24494	78°59'5	31678	24
37	33'8	440	30'7	3046	45'3	8077	36'2	15539	36'0	24646	79 26'3	31742	23
38	34'9	464	33'7	3110	51'1	8182	46'8	15682	54'3	24798	53'2	31805	22
39	35'9	489	36'7	3175	56'9	8288	57'2	15825	57 12'7	24948	80 20'1	31864	21
40	37'0	514	39'7	3240	35 2'8	8394	43 7'8	15969	31'3	25098	47'2	31920	20
41	28°38'2	540	30°42'8	3305	35° 8'7	8501	43°18'6	16113	57°50'1	25248	81°14'3	31975	19
42	39'3	567	45'9	3372	14'8	8609	29'5	16258	58 9'0	25397	41'5	32027	18
43	40'5	594	49'1	3439	20'8	8717	40'4	16404	28'0	25546	82 8'8	32075	17
44	41'7	622	52'3	3507	26'9	8826	51'4	16549	47'3	25694	36'2	32121	16
45	43'0	651	55'6	3575	33'1	8935	44 2'6	16695	59 6'7	25842	83 3'6	32165	15
46	28°44'2	680	30°58'8	3644	35°39'4	9046	44°13'9	16842	59°26'2	25988	83°31'0	32206	14
47	45'5	710	31 2'2	3714	45'7	9157	25'2	16989	45'9	26134	58'6	32244	13
48	46'9	741	5'5	3784	52'1	9269	36'7	17137	60 5'8	26280	84 26'2	32279	12
49	48'2	772	8'9	3855	58'5	9381	48'3	17285	25'8	26425	53'8	32312	11
50	49'6	804	12'4	3927	36 5'0	9494	45 0'1	17434	46'0	26568	85 21'5	32342	10
51	28°51'0	837	31°15'8	4000	36°11'6	9608	45°11'9	17583	61° 6'4	26711	85°49'3	32369	9
52	52'5	870	19'4	4073	18'3	9722	23'8	17732	26'9	26853	86 17'0	32393	8
53	54'0	904	22'9	4147	25'0	9837	35'9	17882	47'5	26994	44'8	32415	7
54	55'5	938	26'5	4221	31'7	9953	48'1	18032	62 8'4	27134	87 12'7	32433	6
55	57'0	973	30'2	4297	38'6	10070	46 0'4	18183	29'4	27273	40'5	32449	5
56	28°58'6	1009	31°33'9	4373	36°45'5	10187	46°12'8	18334	62°50'6	27412	88° 8'4	32462	4
57	29 0'2	1046	37'6	4449	52'5	10304	25'3	18485	63 11'9	27549	36'3	32472	3
58	1'8	1083	41'4	4526	59'5	10423	38'0	18636	33'4	27685	89 4'2	32479	2
59	3'5	1121	45'2	4604	37 6'6	10542	50'7	18788	55'1	27820	32'1	32483	1
60	5'2	1159	49'0	4683	13'8	10662	47 3'6	18940	64 16'8	27954	90 0'0	32485	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	28°30.0	0	29°20.4	1153	32° 5.1	4658	37°31.1	10597	47°21.5	18799	64°30.8	27688	60
1	30.0	0	22.2	1192	9.0	4737	38.4	10717	34.5	18949	52.6	27818	59
2	30.1	1	23.9	1232	13.0	4817	45.8	10837	47.6	19100	65 14.6	27947	58
3	30.1	3	25.7	1272	17.0	4897	53.2	10958	48 0.9	19251	36.7	28075	57
4	30.2	5	27.6	1313	21.1	4978	38 0.7	11079	14.3	19403	59.0	28201	56
5	30.3	8	29.5	1355	25.2	5060	8.3	11201	27.8	19555	66 21.5	28326	55
6	28°30.5	11	29°31.3	1397	32°29.3	5142	38°15.9	11324	48°41.4	19707	66°44.1	28450	54
7	30.7	16	33.2	1440	33.5	5225	23.6	11448	55.2	19859	67 6.8	28573	53
8	30.9	21	35.2	1483	37.7	5308	31.4	11572	49 9.1	20012	29.7	28694	52
9	31.1	26	37.2	1527	42.0	5393	39.3	11696	23.1	20164	52.8	28813	51
10	31.4	32	39.2	1572	46.3	5478	47.3	11822	37.3	20316	68 16.0	28932	50
11	28°31.7	39	29°41.2	1618	32°50.7	5564	38°55.3	11948	49°51.5	20469	68°39.3	29048	49
12	32.0	46	43.3	1664	55.1	5650	39 3.4	12074	50 6.0	20622	69 2.8	29162	48
13	32.3	54	45.4	1710	59.6	5737	11.6	12202	20.5	20775	26.5	29276	47
14	32.7	62	47.6	1758	33 4.1	5825	19.9	12329	35.2	20929	50.2	29387	46
15	33.1	72	49.8	1806	8.7	5913	28.2	12458	50.0	21082	70 14.2	29497	45
16	28°33.5	82	29°52.0	1855	33°13.3	6002	39°36.7	12587	51° 5.0	21235	70°38.2	29606	44
17	34.0	92	54.2	1904	18.0	6092	45.2	12716	20.1	21388	71 2.4	29711	43
18	34.5	103	56.5	1954	22.7	6182	53.8	12847	35.3	21542	26.8	29816	42
19	35.0	115	58.8	2005	27.4	6274	40 2.5	12978	50.7	21695	51.3	29918	41
20	35.5	128	30 1.2	2056	32.2	6366	11.2	13109	52 6.2	21848	72 15.9	30019	40
21	28°36.1	141	30° 3.6	2108	33°37.1	6458	40°20.1	13241	52°21.9	22002	72°40.6	30118	39
22	36.7	155	6.0	2161	42.0	6551	29.0	13374	37.7	22155	73 5.5	30215	38
23	37.3	169	8.4	2214	47.0	6645	38.1	13507	53.7	22308	30.5	30310	37
24	37.9	184	10.9	2268	52.0	6740	47.2	13641	53 9.8	22461	55.6	30402	36
25	38.6	200	13.4	2323	57.1	6835	56.4	13776	26.0	22614	74 20.9	30493	35
26	28°39.3	216	30°16.0	2378	34° 2.2	6931	41° 5.7	13910	53°42.4	22767	74°46.3	30581	34
27	40.0	233	18.6	2434	7.4	7028	15.1	14046	58.9	22920	75 11.8	30668	33
28	40.8	251	21.2	2491	12.6	7125	24.6	14183	54 15.6	23072	37.4	30753	32
29	41.6	269	23.8	2548	17.9	7223	34.1	14319	32.4	23224	76 3.1	30834	31
30	42.4	287	26.5	2606	23.2	7322	43.8	14455	49.4	23376	29.0	30913	30
31	28°43.3	307	30°29.3	2665	34°28.6	7421	41°53.5	14594	55° 6.5	23528	76°54.9	30991	29
32	44.1	327	32.0	2724	34.1	7520	42 3.4	14733	23.8	23680	77 21.0	31067	28
33	45.0	348	34.8	2784	39.6	7622	13.4	14872	41.2	23830	47.1	31139	27
34	46.0	370	37.7	2845	45.1	7723	23.4	15011	58.8	23981	78 13.4	31209	26
35	46.9	392	40.6	2906	50.7	7825	33.5	15151	56 16.5	24131	39.7	31278	25
36	28°47.9	414	30°43.5	2968	34°56.4	7928	42°43.8	15292	56°34.4	24282	79° 6.2	31343	24
37	48.9	438	46.4	3031	35 2.1	8032	54.1	15432	52.5	24431	32.7	31407	23
38	50.0	462	49.4	3095	7.9	8136	43 4.6	15573	57 10.7	24581	59.3	31468	22
39	51.1	486	52.4	3158	13.8	8240	15.1	15715	29.0	24729	80 26.0	31526	21
40	52.2	511	55.5	3223	19.7	8346	25.7	15858	47.5	24878	52.8	31582	20
41	28°53.3	538	30°58.6	3289	35°25.7	8452	43°36.5	16001	58° 6.2	25025	81°19.7	31634	19
42	54.5	564	31 1.8	3355	31.7	8559	47.3	16144	25.0	25171	46.6	31685	18
43	55.6	591	4.9	3421	37.8	8666	58.3	16289	44.0	25318	82 13.7	31733	17
44	56.9	619	8.2	3489	43.9	8774	44 9.4	16433	59 3.1	25463	40.8	31778	16
45	58.1	648	11.4	3557	50.1	8883	20.5	16578	22.4	25609	83 7.9	31821	15
46	28°59.4	677	31°14.7	3625	35°56.4	8993	44°31.8	16724	59°41.9	25754	83°35.1	31861	14
47	29 0.7	707	18.0	3695	36 2.8	9103	43.2	16869	60 1.5	25898	84 2.3	31898	13
48	2.0	737	21.4	3765	9.2	9214	54.7	17015	21.2	26041	29.7	31932	12
49	3.4	768	24.8	3836	15.6	9326	45 6.3	17161	41.2	26183	57.0	31964	11
50	4.8	800	28.3	3907	22.2	9438	18.0	17308	61 1.3	26325	85 24.4	31994	10
51	29° 6.2	833	31°31.8	3979	36°28.7	9551	45°29.8	17456	61°21.5	26466	85°51.9	32021	9
52	7.7	865	35.3	4052	35.4	9665	41.8	17604	41.9	26606	86 19.4	32044	8
53	9.2	899	38.9	4125	42.1	9779	53.8	17752	62 2.5	26744	46.9	32065	7
54	10.7	934	42.5	4199	48.9	9894	46 6.0	17901	23.2	26882	87 14.4	32083	6
55	12.2	969	46.2	4274	55.8	10009	18.3	18049	44.1	27019	42.0	32098	5
56	29°13.8	1004	31°49.9	4350	37° 2.7	10125	46°30.7	18198	63° 5.1	27155	88° 9.5	32110	4
57	15.4	1041	53.6	4426	9.7	10243	43.2	18348	26.3	27290	37.1	32120	3
58	17.1	1078	57.4	4503	16.8	10360	55.9	18498	47.6	27424	89 4.7	32128	2
59	18.7	1115	32 1.3	4580	23.9	10478	47 8.6	18648	64 9.1	27556	32.4	32133	1
60	20.4	1153	5.1	4658	31.1	10597	21.5	18799	30.8	27688	90 0.0	32134	0
	11 H		10 H		9 H		8 H		7 H		6 H		m

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	28°45·0	0	29°35·7	1148	32°21·2	4634	37°48·4	10532	47°39·3	18657	64°44·6	27423	60
1	45·0	0	37·5	1187	25·1	4712	55·7	10651	52·3	18806	65 6·3	27551	59
2	45·1	1	39·2	1226	29·1	4791	38 3·1	10770	48 5·4	18955	28·1	27678	58
3	45·1	3	41·0	1266	33·2	4871	10·5	10890	18·6	19105	50·1	27804	57
4	45·2	5	42·9	1307	37·3	4951	18·0	11011	32·0	19254	66 12·3	27928	56
5	45·3	8	44·7	1348	41·4	5033	25·6	11132	45·5	19404	34·5	28051	55
6	28°45·5	11	29°46·6	1390	32°45·5	5115	38°33·3	11254	48°59·1	19555	66°57·0	28173	54
7	45·7	16	48·6	1432	49·7	5197	41·0	11376	49 12·8	19705	67 19·6	28293	53
8	45·9	20	50·5	1476	54·0	5280	48·9	11499	26·7	19856	42·3	28412	52
9	46·1	26	52·5	1520	58·3	5364	56·8	11623	40·7	20006	68 5·2	28529	51
10	46·4	32	54·6	1564	33 2·6	5448	39 4·7	11747	54·9	20157	28·2	28645	50
11	28°46·7	38	29°56·6	1609	33° 7·0	5533	39°12·8	11872	50° 9·1	20308	68°51·4	28759	49
12	47·0	46	58·7	1655	11·4	5619	20·9	11998	23·5	20459	69 14·7	28873	48
13	47·3	54	30 0·8	1702	15·9	5706	29·1	12124	38·0	20611	38·1	28984	47
14	47·7	62	3·0	1749	20·5	5793	37·4	12251	52·7	20762	70 1·7	29093	46
15	48·1	71	5·2	1797	25·1	5881	45·8	12378	51 7·5	20913	25·5	29201	45
16	28°48·5	81	30° 7·4	1846	33°29·7	5969	39°54·2	12506	51°22·4	21065	70°49·3	29307	44
17	49·0	92	9·7	1895	34·4	6059	40 2·7	12635	37·5	21216	71 13·3	29411	43
18	49·5	103	12·0	1944	39·1	6149	11·4	12764	52·7	21367	37·5	29514	42
19	50·0	115	14·3	1995	43·9	6239	20·1	12894	52 8·0	21519	72 1·8	29614	41
20	50·5	127	16·7	2046	48·7	6330	28·8	13024	23·5	21670	26·2	29713	40
21	28°51·1	140	30°19·1	2098	33°53·6	6422	40°37·7	13155	52°39·1	21822	72°50·7	29810	39
22	51·7	154	21·5	2150	58·5	6515	46·7	13286	54·9	21973	73 15·4	29905	38
23	52·3	168	23·9	2203	34 3·5	6608	55·7	13418	53 10·8	22124	40·2	29998	37
24	53·0	183	26·4	2257	8·5	6702	41 4·8	13551	26·8	22275	74 5·1	30089	36
25	53·7	199	29·0	2311	13·6	6797	14·1	13684	43·0	22426	30·1	30178	35
26	28°54·4	215	30°31·5	2366	34°18·8	6892	41°23·4	13818	53°59·4	22577	74°55·3	30265	34
27	55·1	232	34·1	2422	24·0	6988	32·8	13952	54 15·9	22727	75 20·6	30349	33
28	55·9	249	36·8	2478	29·2	7085	42·3	14087	32·5	22877	45·9	30432	32
29	56·7	268	39·5	2535	34·5	7182	51·9	14223	49·2	23027	76 11·4	30513	31
30	57·5	286	42·2	2593	39·9	7280	42 1·5	14359	55 6·2	23177	37·0	30591	30
31	28°58·3	306	30°44·9	2652	34°45·3	7379	42°11·3	14496	55°23·2	23327	77° 2·7	30667	29
32	59·2	326	47·7	2711	50·8	7478	21·1	14633	40·4	23476	28·6	30741	28
33	29 0·1	346	50·5	2770	56·3	7578	31·1	14770	57·8	23625	54·5	30812	27
34	1·1	368	53·4	2831	35 1·9	7679	41·2	14908	56 15·3	23774	78 20·5	30881	26
35	2·0	390	56·2	2892	7·5	7781	51·3	15047	33·0	23922	46·6	30948	25
36	29° 3·0	412	30°59·2	2953	35°13·2	7883	43° 1·6	15186	56°50·8	24070	79°12·8	31012	24
37	4·0	436	31 2·2	3016	18·9	7985	11·9	15326	57 8·8	24217	39·0	31074	23
38	5·1	460	5·2	3079	24·8	8089	22·4	15466	26·9	24364	80 5·4	31134	22
39	6·2	484	8·2	3142	30·6	8193	32·9	15607	45·2	24511	31·9	31191	21
40	7·3	509	11·3	3207	36·5	8298	43·6	15748	58 3·6	24657	58·4	31245	20
41	29° 8·4	535	31°14·4	3272	35°42·5	8403	43°54·3	15889	58°22·2	24802	81°25·0	31297	19
42	9·6	562	17·6	3337	48·6	8509	44 5·2	16031	40·9	24947	51·7	31347	18
43	10·8	589	20·8	3404	54·7	8616	16·1	16174	59·8	25091	82 18·4	31394	17
44	12·0	616	24·0	3471	36 0·9	8723	27·2	16317	59 18·8	25235	45·2	31438	16
45	13·3	645	27·2	3538	7·1	8831	38·4	16460	38·0	25378	83 12·1	31480	15
46	29°14·6	674	31°30·5	3607	36°13·4	8940	44°49·6	16604	59°57·4	25520	83°39·0	31520	14
47	15·9	704	33·9	3676	19·8	9050	45 1·0	16748	60 16·9	25662	84 6·0	31556	13
48	17·2	734	37·3	3745	26·2	9160	12·5	16893	36·5	25803	33·1	31590	12
49	18·6	765	40·7	3816	32·7	9271	24·1	17038	56·4	25943	85 0·2	31621	11
50	20·0	796	44·2	3887	39·2	9382	35·8	17183	61 16·3	26082	27·2	31650	10
51	29°21·4	829	31°47·7	3958	36°45·8	9494	45°47·7	17329	61°36·5	26221	85°54·4	31676	9
52	22·9	862	51·3	4031	52·5	9607	59·6	17475	56·8	26358	86 21·6	31699	8
53	24·4	895	54·9	4104	59·3	9720	46 11·7	17622	62 17·2	26495	48·8	31719	7
54	25·9	929	58·5	4177	37 6·1	9834	23·8	17769	37·8	26631	87 16·1	31737	6
55	27·5	964	32 2·2	4252	12·9	9949	36·1	17916	58·5	26766	43·4	31752	5
56	29°29·1	1000	32° 5·9	4327	37°19·9	10064	46°48·5	18063	63°19·4	26899	88°10·7	31765	4
57	30·7	1036	9·7	4403	26·9	10180	47 1·0	18211	40·5	27032	38·0	31774	3
58	32·3	1072	13·5	4479	34·0	10297	13·6	18359	64 1·7	27163	89 5·3	31781	2
59	34·0	1110	17·3	4556	41·2	10414	26·4	18508	23·1	27293	32·7	31785	1
60	35·7	1148	21·2	4634	48·4	10532	39·3	18657	44·6	27423	90 0·0	31787	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	29° 0'0	0 29°51'0	1142 32°37'3	4609 38° 5'6	10467 47°56'9	18515 64°58'3	27159 60
1	0'0	0 52'7	1181 41'3	4687 12'9	10585 48 9'9	18663 65 19'8	27284 59
2	0'1	1 54'5	1220 45'2	4765 20'3	10703 23'0	18811 41'5	27411 58
3	0'1	3 56'3	1260 49'3	4845 27'8	10822 36'2	18958 66 3'3	27535 57
4	0'2	5 58'2	1300 53'4	4925 35'3	10942 49'6	19106 25'3	27657 56
5	0'3	8 30 0'1	1341 57'5	5005 42'9	11062 49 3'1	19254 47'4	27778 55
6	29° 0'5	11 30° 2'0	1383 33° 1'7	5087 38°50'6	11182 49°16'7	19403 67° 9'7	27897 54
7	0'7	16 3'9	1425 5'9	5169 58'4	11304 30'4	19551 32'1	28015 53
8	0'9	20 5'9	1468 10'2	5252 39 6'2	11427 44'2	19700 54'7	28132 52
9	1'1	26 7'9	1512 14'5	5335 14'1	11549 58'2	19849 68 17'4	28248 51
10	1'4	32 9'9	1557 18'9	5419 22'1	11672 50 12'3	19998 40'3	28362 50
11	29° 1'7	38 30°12'0	1602 33°23'3	5503 39°30'2	11796 50°26'5	20147 69° 3'3	28474 49
12	2'0	45 14'1	1647 27'7	5589 38'3	11921 40'9	20296 26'4	28584 48
13	2'3	53 16'2	1693 32'2	5675 46'5	12046 55'4	20446 49'7	28694 47
14	2'7	62 18'4	1740 36'8	5761 54'8	12171 51 10'0	20596 70 13'1	28801 46
15	3'1	71 20'6	1788 41'4	5848 40 3'2	12298 24'8	20745 36'6	28907 45
16	29° 3'6	81 30°22'9	1836 33°46'0	5936 40°11'7	12425 51°39'7	20895 71° 0'3	29012 44
17	4'0	91 25'1	1885 50'7	6025 20'2	12552 54'7	21044 24'1	29114 43
18	4'5	102 27'4	1935 55'5	6114 28'9	12680 52 9'9	21193 48'1	29214 42
19	5'0	114 29'8	1985 34 0'3	6204 37'6	12809 25'2	21343 72 12'1	29313 41
20	5'6	126 32'1	2036 5'1	6295 46'4	12938 40'6	21493 36'3	29410 40
21	29° 6'1	140 30°34'5	2087 34°10'0	6387 40°55'3	13068 52°56'2	21642 73° 0'7	29505 39
22	6'7	154 37'0	2139 15'0	6479 41 4'2	13199 53 11'9	21791 25'1	29598 38
23	7'4	167 39'5	2192 20'0	6571 13'3	13329 27'8	21940 49'7	29698 37
24	8'0	183 42'0	2246 25'0	6665 22'4	13461 43'8	22089 74 14'4	29778 36
25	8'7	198 44'5	2300 30'2	6759 31'7	13593 59'9	22238 39'2	29866 35
26	29° 9'4	214 30°47'1	2354 34°35'3	6853 41°41'0	13725 54°16'2	22386 75° 4'2	29952 34
27	10'2	231 49'7	2410 40'5	6949 50'4	13858 32'6	22535 29'2	30034 33
28	10'9	248 52'4	2466 45'8	7045 59'9	13992 49'2	22683 54'3	30115 32
29	11'7	266 55'1	2523 51'1	7141 42 9'5	14127 55 5'9	22832 76 19'6	30194 31
30	12'6	284 57'8	2580 56'5	7239 19'2	14262 22'8	22979 45'0	30271 30
31	29°13'4	304 31° 0'5	2638 35° 1'9	7337 42°28'9	14397 55°39'8	23127 77°10'4	30346 29
32	14'3	324 3'3	2697 7'4	7435 38'8	14532 56'9	23274 36'0	30418 28
33	15'2	345 6'2	2756 13'0	7535 48'8	14668 56 14'2	23421 78 1'7	30488 27
34	16'1	367 9'0	2816 18'6	7635 58'8	14805 31'7	23567 27'5	30555 26
35	17'1	388 11'9	2877 24'2	7736 43 9'0	14943 49'3	23713 53'3	30621 25
36	29°18'1	411 31°14'9	2938 35°29'9	7837 43°19'3	15081 57° 7'0	23859 79°19'3	30685 24
37	19'1	434 17'9	3000 35'7	7939 29'6	15219 24'9	24005 45'3	30745 23
38	20'2	457 20'9	3063 41'5	8042 40'1	15358 42'9	24150 80 11'4	30803 22
39	21'3	482 23'9	3126 47'4	8145 50'6	15497 58 1'1	24294 37'6	30859 21
40	22'4	506 27'0	3190 53'4	8249 44 1'3	15636 19'5	24438 81 3'9	30913 20
41	29°23'6	532 31°30'2	3255 35°59'4	8354 44°12'0	15777 58°38'0	24581 81°30'2	30964 19
42	24'7	559 33'3	3320 36 5'4	8459 22'9	15918 56'6	24724 56'6	31012 18
43	25'9	586 36'5	3386 11'6	8565 33'9	16059 59 15'4	24866 82 23'1	31058 17
44	27'2	613 39'8	3453 17'8	8671 44'9	16200 34'4	25007 49'6	31102 16
45	28'4	642 43'1	3520 24'0	8779 56'1	16342 53'5	25148 83 16'2	31142 15
46	29°29'7	670 31°46'4	3588 36°30'3	8887 45° 7'4	16484 60°12'7	25289 83°42'9	31181 14
47	31'0	700 49'8	3656 36'7	8996 18'8	16627 32'1	25428 84 9'6	31217 13
48	32'4	730 53'2	3725 43'1	9106 30'2	16770 51'7	25566 36'4	31250 12
49	33'8	761 56'6	3795 49'7	9216 41'9	16914 61 11'4	25704 85 3'2	31281 11
50	35'2	792 32 0'1	3866 56'2	9326 53'6	17058 31'2	25841 30'0	31309 10
51	29°36'6	825 32° 3'7	3937 37° 2'9	9437 46° 5'4	17202 61°51'2	25977 85°56'9	31334 9
52	38'1	857 7'2	4009 9'6	9549 17'3	17347 62 11'4	26112 86 23'8	31357 8
53	39'6	891 10'8	4082 16'3	9662 29'4	17492 31'8	26247 50'8	31377 7
54	41'1	925 14'5	4155 23'2	9775 41'5	17637 52'3	26382 87 17'8	31395 6
55	42'7	959 18'2	4229 30'1	9889 53'8	17783 63 12'9	26513 44'8	31409 5
56	29°44'3	995 32°21'9	4304 37°37'0	10003 47° 6'2	17929 63°33'6	26645 88°11'8	31421 4
57	45'9	1031 25'7	4379 44'1	10118 18'7	18075 54'6	26775 38'8	31431 3
58	47'6	1067 29'5	4455 51'2	10234 31'3	18222 64 15'6	26905 89 5'9	31438 2
59	49'3	1104 33'4	4532 58'4	10350 44'1	18368 36'9	27033 32'9	31442 1
60	51'0	1142 37'3	4609 38 5'6	10467 56'9	18515 58'3	27159 90 0'0	31443 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	29°15·0	0	30° 6·3	1137	32°53·4	4584	38°22·7	10402	48°14·5	18374	65°11·7	26899	60
1	15·0	0	8·0	1175	57·3	4662	30·1	10519	27·4	18520	33·1	27023	59
2	15·1	1	9·8	1214	33 1·3	4740	37·5	10636	40·5	18666	54·7	27146	58
3	15·1	3	11·6	1253	5·4	4818	45·0	10754	53·7	18812	66 16·4	27267	57
4	15·2	5	13·5	1294	9·5	4898	52·5	10873	49 7·1	18958	38·2	27387	56
5	15·3	8	15·4	1335	13·6	4978	39 0·2	10992	20·5	19105	67 0·2	27506	55
6	29°15·5	11	30°17·3	1376	33°17·9	5059	39° 7·9	11112	49°34·1	19251	67°22·3	27624	54
7	15·7	15	19·3	1418	22·1	5140	15·6	11233	47·8	19398	44·5	27740	53
8	15·9	20	21·3	1461	26·4	5223	23·5	11354	50 1·6	19545	68 6·9	27855	52
9	16·1	25	23·3	1505	30·7	5305	31·4	11475	15·6	19692	29·5	27968	51
10	16·4	32	25·3	1549	35·1	5389	39·4	11597	29·6	19839	52·2	28080	50
11	29°16·7	38	30°27·4	1593	33°39·5	5473	39°47·5	11720	50°43·8	19987	69°15·0	28190	49
12	17·0	45	29·5	1639	44·0	5558	55·6	11844	58·2	20134	37·9	28299	48
13	17·4	53	31·6	1685	48·5	5643	40 3·9	11968	51 12·7	20282	70 1·0	28406	47
14	17·7	62	33·8	1732	53·1	5729	12·2	12093	27·2	20430	24·3	28512	46
15	18·1	71	36·0	1779	57·7	5816	20·6	12218	42·0	20577	47·6	28616	45
16	29°18·6	81	30°38·3	1827	34° 2·4	5903	40°29·1	12344	51°56·8	20725	71°11·1	28718	44
17	19·0	91	40·6	1876	7·1	5991	37·6	12470	52 11·8	20872	34·7	28818	43
18	19·5	102	42·9	1925	11·9	6080	46·3	12597	27·0	21020	58·5	28917	42
19	20·0	114	45·2	1975	16·7	6170	55·0	12725	42·2	21167	72 22·4	29014	41
20	20·6	126	47·6	2025	21·6	6260	41 3·8	12853	57·6	21315	46·4	29110	40
21	29°21·2	139	30°50·0	2076	34°26·5	6351	41°12·8	12981	53°13·2	21462	73°10·5	29203	39
22	21·8	152	52·5	2128	31·4	6442	21·7	13110	28·8	21610	34·7	29294	38
23	22·4	167	55·0	2181	36·5	6534	30·8	13240	44·6	21757	59·1	29384	37
24	23·1	181	57·5	2234	41·6	6627	39·9	13371	54 0·6	21904	74 23·6	29471	36
25	23·7	197	31 0·1	2288	46·7	6720	49·2	13502	16·7	22051	48·2	29557	35
26	29°24·5	213	31° 2·6	2342	34°51·8	6814	41°58·5	13633	54°32·9	22197	75°12·9	29641	34
27	25·2	230	5·3	2397	57·1	6909	42 7·9	13765	49·3	22344	37·7	29722	33
28	26·0	247	7·9	2453	35 2·4	7004	17·4	13897	55 5·8	22490	76 2·6	29801	32
29	26·8	265	10·6	2510	7·7	7100	27·0	14030	22·4	22636	27·7	29879	31
30	27·6	284	13·4	2567	13·1	7197	36·7	14164	39·2	22782	52·8	29954	30
31	29°28·5	303	31°16·2	2624	35°18·5	7295	42°46·5	14298	55°56·2	22928	77°18·0	30026	29
32	29·4	322	19·0	2683	24·0	7393	56·4	14432	56 13·3	23073	43·4	30098	28
33	30·3	343	21·8	2742	29·6	7491	43 6·4	14567	30·5	23218	78 8·8	30167	27
34	31·2	364	24·7	2802	35·2	7591	16·5	14703	47·9	23362	34·3	30233	26
35	32·2	386	27·6	2862	40·9	7691	26·6	14839	57 5·4	23506	59·9	30297	25
36	29°33·2	408	31°30·6	2923	35°46·6	7791	43°36·9	14975	57°23·1	23650	79°25·6	30359	24
37	34·3	431	33·6	2985	52·4	7893	47·2	15112	40·9	23793	51·4	30419	23
38	35·3	455	36·6	3047	58·3	7995	57·7	15250	58·8	23936	80 17·3	30476	22
39	36·4	479	39·7	3110	36 4·2	8097	44 8·2	15388	58 16·9	24078	43·2	30531	21
40	37·5	504	42·8	3173	10·1	8200	18·9	15526	35·2	24219	81 9·2	30583	20
41	29°38·7	530	31°45·9	3238	36°16·2	8304	44°29·7	15665	58°53·6	24360	81°35·3	30633	19
42	39·9	556	49·1	3303	22·3	8409	40·5	15804	59 12·2	24501	82 1·5	30681	18
43	41·1	583	52·3	3368	28·4	8514	51·5	15944	30·9	24641	27·7	30726	17
44	42·3	610	55·6	3434	34·6	8620	45 2·6	16084	49·7	24780	54·0	30768	16
45	43·6	638	58·9	3500	40·9	8727	13·7	16224	60 8·7	24919	83 20·3	30809	15
46	29°44·9	667	32° 2·2	3568	36°47·2	8834	45°25·0	16365	60°27·9	25057	83°46·7	30846	14
47	46·2	697	5·6	3637	53·6	8942	36·4	16506	47·2	25195	84 13·2	30881	13
48	47·6	727	9·0	3706	37 0·1	9050	47·9	16648	61 6·6	25331	39·7	30914	12
49	49·0	757	12·5	3776	6·6	9159	59·5	16790	26·2	25467	85 6·3	30944	11
50	50·4	789	16·0	3846	13·2	9269	46 11·2	16932	46·0	25602	32·8	30971	10
51	29°51·8	820	32°19·6	3917	37°19·8	9380	46°23·0	17075	62° 5·9	25736	85°59·4	30996	9
52	53·3	853	23·1	3988	26·6	9491	34·9	17218	25·9	25869	86 26·0	31018	8
53	54·8	886	26·8	4060	33·4	9603	47·0	17361	46·1	26001	52·7	31038	7
54	56·4	920	30·4	4133	40·2	9715	59·1	17505	63 6·5	26132	87 19·4	31055	6
55	57·9	955	34·1	4207	47·1	9828	47 11·4	17650	27·0	26263	46·1	31070	5
56	29°59·5	990	32°37·9	4281	37°54·1	9942	47°23·8	17794	63°47·7	26392	88°12·9	31082	4
57	30 1·2	1025	41·7	4356	38 1·2	10056	36·3	17938	64 8·5	26521	39·7	31091	3
58	2·8	1062	45·5	4431	8·3	10171	48·9	18083	29·4	26648	89 6·4	31097	2
59	4·5	1099	49·4	4507	15·5	10286	48 1·6	18229	50·5	26774	33·2	31101	1
60	6·3	1137	53·4	4584	22·7	10402	14·5	18374	65 11·7	26899	90 0·0	31103	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	29°30'0	0	30°21'5	1131	33° 9'4	4559	38°39'8	10337	48°31'9	18233	65°25'1	26640	60
1	30'0	0	23'3	1169	13'4	4636	47'2	10453	44'8	18377	46'3	26762	59
2	30'1	1	25'1	1208	17'4	4713	54'6	10569	57'9	18522	66 7'7	26883	58
3	30'1	3	26'9	1247	21'5	4792	39 2'1	10686	49 11'1	18666	29'2	27002	57
4	30'2	5	28'8	1287	25'6	4871	9'7	10804	24'4	18811	50'9	27119	56
5	30'3	8	30'7	1327	29'8	4951	17'3	10922	37'8	18955	67 12'7	27236	55
6	29°30'5	11	30°32'6	1369	33°34'0	5031	39°25'0	11041	49°51'4	19100	67°34'7	27351	54
7	30'7	15	34'6	1411	38'2	5112	32'8	11161	50 5'1	19245	56'8	27466	53
8	30'9	20	36'6	1454	42'5	5193	40'7	11281	18'9	19390	68 19'0	27579	52
9	31'1	25	38'6	1497	46'9	5276	48'6	11401	32'8	19536	41'4	27690	51
10	31'4	31	40'7	1541	51'3	5359	56'7	11523	46'8	19682	69 3'9	27800	50
11	29°31'7	38	30°42'8	1585	33°55'7	5443	40° 4'8	11645	51° 1'0	19827	69°26'6	27909	49
12	32'0	45	44'9	1630	34 0'2	5527	12'9	11767	15'3	19973	49'3	28015	48
13	32'4	53	47'0	1676	4'8	5612	21'2	11890	29'8	20118	70 12'3	28121	47
14	32'8	62	49'2	1723	9'4	5697	29'5	12014	44'3	20264	35'3	28224	46
15	33'2	71	51'5	1770	14'0	5783	37'9	12138	59'0	20410	58'5	28326	45
16	29°33'6	80	30°53'7	1818	34°18'7	5870	40°46'4	12263	52°13'8	20555	71°21'8	28427	44
17	34'1	90	56'0	1866	23'4	5958	55'0	12388	28'8	20701	45'2	28526	43
18	34'6	102	58'3	1915	28'2	6046	41 3'7	12513	43'9	20847	72 8'8	28623	42
19	35'1	113	31 0'7	1965	33'0	6135	12'4	12640	59'1	20993	32'5	28718	41
20	35'6	125	3'1	2015	37'9	6224	21'2	12767	53 14'5	21139	56'3	28812	40
21	29°36'2	138	31° 5'5	2066	34°42'9	6315	41°30'1	12895	53°30'0	21284	73°20'2	28903	39
22	36'8	152	8'0	2117	47'9	6406	39'1	13023	45'6	21429	44'2	28992	38
23	37'4	166	10'5	2170	52'9	6497	48'2	13151	54 1'3	21574	74 8'4	29080	37
24	38'1	180	13'0	2223	58'0	6589	57'4	13280	17'2	21719	32'6	29167	36
25	38'8	196	15'6	2276	35 3'1	6682	42 6'6	13410	33'3	21864	57'0	29252	35
26	29°39'5	212	31°18'2	2330	35° 8'3	6775	42°16'0	13540	54°49'5	22009	75°21'5	29334	34
27	40'3	228	20'8	2385	13'6	6869	25'4	13671	55 5'8	22154	46'1	29413	33
28	41'0	245	23'5	2441	18'9	6964	34'9	13802	22'2	22298	76 10'8	29490	32
29	41'9	264	26'2	2497	24'2	7059	44'5	13934	38'8	22442	35'6	29566	31
30	42'7	283	29'0	2553	29'7	7156	54'2	14066	55'6	22585	77 0'5	29640	30
31	29°43'6	301	31°31'8	2611	35°35'1	7253	43° 4'0	14199	56°12'4	22729	77°25'5	29712	29
32	44'4	321	34'6	2669	40'6	7350	13'9	14332	29'5	22872	50'6	29782	28
33	45'4	341	37'4	2728	46'2	7448	23'9	14466	46'6	23015	78 15'8	29849	27
34	46'3	363	40'3	2787	51'9	7546	34'0	14600	57 3'9	23157	41'1	29914	26
35	47'3	384	43'3	2847	57'6	7646	44'1	14735	21'4	23299	79 6'5	29977	25
36	29°48'3	406	31°46'2	2908	36° 3'3	7746	43°54'4	14870	57°39'0	23441	79°31'9	30037	24
37	49'3	429	49'2	2969	9'1	7846	44 4'8	15006	56'7	23582	57'5	30096	23
38	50'4	453	52'3	3031	15'0	7947	15'2	15142	58 14'6	23723	80 23'1	30152	22
39	51'5	477	55'4	3093	20'9	8049	25'8	15278	32'6	23863	48'8	30206	21
40	52'6	502	58'5	3156	26'9	8152	36'5	15415	50'8	24002	81 14'6	30257	20
41	29°53'8	527	32° 1'7	3220	36°32'9	8255	44°47'2	15553	59° 9'1	24141	81°40'4	30306	19
42	55'0	553	4'9	3285	39'0	8359	58'1	15690	27'6	24280	82 6'3	30353	18
43	56'2	580	8'1	3350	45'2	8463	45 9'0	15828	46'2	24418	32'2	30397	17
44	57'5	607	11'4	3416	51'4	8568	20'1	15967	60 4'9	24555	58'3	30439	16
45	58'7	635	14'7	3483	57'7	8674	31'3	16106	23'8	24692	83 24'4	30478	15
46	30° 0'0	664	32°18'1	3550	37° 4'1	8781	45°42'6	16245	60°42'9	24828	83°50'5	30514	14
47	1'4	693	21'4	3618	10'5	8888	53'9	16385	61 2'1	24963	84 16'7	30549	13
48	2'7	723	24'9	3687	17'0	8996	46 5'4	16526	21'4	25097	42'9	30581	12
49	4'1	753	28'4	3756	23'5	9104	17'0	16666	40'9	25231	85 9'2	30610	11
50	5'6	784	31'9	3825	30'1	9212	28'7	16806	62 0'6	25364	35'5	30637	10
51	30° 7'0	816	32°35'4	3895	37°36'8	9322	46°40'5	16948	62°20'4	25496	86° 1'8	30662	9
52	8'5	849	39'0	3966	43'5	9432	52'5	17090	40'3	25627	28'2	30684	8
53	10'0	882	42'7	4038	50'3	9543	47 4'5	17232	63 0'4	25756	54'6	30703	7
54	11'6	915	46'4	4111	57'2	9655	16'6	17374	20'6	25885	87 21'1	30719	6
55	13'2	950	50'1	4184	38 4'1	9767	28'9	17516	41'0	26014	47'5	30734	5
56	30°14'8	985	32°53'9	4258	38°11'1	9880	47°41'3	17659	64° 1'5	26141	88°14'0	30746	4
57	16'4	1020	57'7	4332	18'2	9993	53'7	17802	22'2	26268	40'5	30755	3
58	18'1	1057	33 1'5	4407	25'4	10107	48 6'3	17945	43'0	26393	89 7'0	30761	2
59	19'8	1094	5'4	4483	32'6	10222	19'1	18089	65 4'0	26517	33'5	30765	1
60	21'5	1131	9'4	4559	39'8	10337	31'9	18233	25'1	26640	90 0'0	30766	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	29°45'0	0	30°36'8	1125	33°25'4	4534	38°56'9	10272	48°49'2	18092	65°38'2	26383	60
1	45'0	0	38'6	1163	29'4	4611	39 4'3	10387	49 2'2	18234	59'3	26502	59
2	45'1	1	40'4	1202	33'5	4688	11'7	10502	15'2	18377	66 20'6	26621	58
3	45'1	3	42'2	1241	37'5	4766	19'2	10618	28'3	18520	42'0	26738	57
4	45'2	5	44'1	1281	41'7	4844	26'8	10735	41'5	18663	67 3'5	26854	56
5	45'4	8	46'0	1321	45'9	4923	34'4	10852	55'0	18806	25'2	26969	55
6	29°45'5	11	30°47'9	1362	33°50'1	5003	39°42'2	10970	50° 8'6	18949	67°47'0	27083	54
7	45'7	15	49'9	1404	54'4	5083	50'0	11089	22'2	19093	68 8'9	27195	53
8	45'9	20	51'9	1446	58'7	5165	57'9	11208	36'0	19236	31'0	27306	52
9	46'1	25	54'0	1489	34 3'1	5246	40 5'8	11327	49'9	19380	53'2	27415	51
10	46'4	31	56'0	1533	7'5	5329	13'9	11447	51 3'9	19523	69 15'5	27523	50
11	29°46'7	38	30°58'1	1577	34°11'9	5412	40°22'0	11568	51°18'1	19667	69°38'0	27629	49
12	47'0	45	31 0'3	1622	16'4	5495	30'2	11690	32'4	19811	70 0'6	27734	48
13	47'4	53	2'4	1668	21'0	5580	38'5	11812	46'8	19955	23'4	27838	47
14	47'8	61	4'6	1714	25'6	5665	46'8	11934	52 1'3	20099	46'2	27940	46
15	48'2	70	6'9	1761	30'3	5751	55'2	12057	15'9	20243	71 9'2	28040	45
16	29°48'6	80	31° 9'1	1808	34°35'0	5837	41° 3'7	12181	52°30'7	20387	71°32'3	28138	44
17	49'1	90	11'4	1856	39'7	5924	12'3	12305	45'6	20530	55'6	28235	43
18	49'6	101	13'8	1905	44'5	6011	21'0	12430	53 0'7	20674	72 18'9	28330	42
19	50'1	113	16'1	1954	49'4	6100	29'7	12555	15'9	20818	42'4	28424	41
20	50'7	125	18'5	2004	54'3	6189	38'5	12681	31'2	20962	73 6'0	28516	40
21	29°51'2	138	31°21'0	2055	34°59'2	6278	41°47'5	12807	53°46'6	21105	73°29'7	28606	39
22	51'8	151	23'5	2106	35 4'2	6368	56'5	12934	54 2'2	21249	53'6	28694	38
23	52'5	165	26'0	2158	9'3	6459	42 5'6	13062	17'9	21392	74 17'5	28780	37
24	53'1	180	28'5	2211	14'4	6551	14'7	13190	33'8	21535	41'6	28864	36
25	53'8	195	31'1	2264	19'6	6643	24'0	13318	49'8	21678	75 5'7	28947	35
26	29°54'6	211	31°33'7	2318	35°24'8	6736	42°33'4	13447	55° 5'9	21821	75°30'0	29027	34
27	55'3	227	36'4	2373	30'1	6829	42'8	13577	22'1	21964	54'4	29105	33
28	56'1	244	39'1	2428	35'4	6923	52'3	13707	38'5	22106	76 18'9	29182	32
29	56'9	262	41'8	2483	40'7	7018	43 1'9	13837	55'1	22248	43'5	29257	31
30	57'8	281	44'5	2540	46'2	7113	11'6	13968	56 11'7	22390	77 8'1	29329	30
31	29°58'6	300	31°47'4	2597	35°51'7	7209	43°21'4	14100	56°28'5	22531	77°32'9	29399	29
32	59'5	319	50'2	2655	57'2	7306	31'3	14232	45'5	22672	57'8	29467	28
33	30 0'5	340	53'1	2713	36 2'8	7403	41'3	14365	57 2'6	22813	78 22'8	29533	27
34	1'4	361	56'0	2772	8'5	7501	51'4	14498	19'8	22954	47'8	29597	26
35	2'4	382	58'9	2832	14'2	7600	44 1'6	14631	37'2	23094	79 13'0	29659	25
36	30° 3'4	404	32° 1'9	2892	36°19'9	7699	44°11'9	14765	57°54'7	23233	79°38'2	29718	24
37	4'5	427	4'9	2953	25'8	7799	22'2	14899	58 12'4	23372	80 3'4	29776	23
38	5'5	451	8'0	3015	31'7	7900	32'7	15034	30'2	23511	28'8	29831	22
39	6'6	475	11'1	3077	37'6	8001	43'2	15169	48'1	23649	54'3	29883	21
40	7'8	499	14'2	3140	43'6	8103	53'9	15304	59 6'2	23786	81 19'8	29934	20
41	30° 8'9	525	32°17'4	3203	36°49'7	8205	45° 4'7	15440	59°24'4	23923	81°45'4	29982	19
42	10'1	551	20'6	3267	55'8	8308	15'5	15577	42'8	24060	82 11'0	30027	18
43	11'3	577	23'8	3332	37 2'0	8412	26'5	15714	60 1'3	24196	36'7	30071	17
44	12'6	604	27'1	3398	8'2	8517	37'6	15851	20'0	24331	83 2'5	30112	16
45	13'9	632	30'5	3464	14'5	8622	48'8	15988	38'8	24465	28'3	30151	15
46	30°15'2	661	32°33'9	3531	37°20'9	8727	46° 0'0	16126	60°57'7	24599	83°54'2	30187	14
47	16'5	690	37'3	3598	27'3	8833	11'4	16265	61 16'8	24732	84 20'1	30220	13
48	17'9	719	40'7	3666	33'8	8940	22'9	16403	36'1	24864	46'1	30251	12
49	19'3	750	44'2	3735	40'4	9048	34'5	16542	55'5	24996	85 12'1	30280	11
50	20'7	781	47'7	3804	47'0	9156	46'2	16682	62 15'0	25127	38'2	30307	10
51	30°22'2	812	32°51'3	3874	37°53'7	9265	46°58'0	16821	62°34'7	25256	86° 4'2	30331	9
52	23'7	845	54'9	3945	38 0'4	9374	47 9'9	16961	54'5	25385	30'3	30352	8
53	25'2	877	58'6	4016	7'3	9484	21'9	17102	63 14'5	25513	56'5	30371	7
54	26'8	911	33 2'3	4088	14'2	9595	34'0	17242	34'6	25641	87 22'7	30387	6
55	28'4	945	6'0	4161	21'1	9706	46'3	17383	54'8	25767	48'9	30401	5
56	30°30'0	980	33° 9'8	4234	38°28'1	9818	47°58'6	17525	64°15'2	25892	88°15'1	30413	4
57	31'6	1015	13'7	4308	35'2	9931	48 11'1	17666	35'8	26016	41'3	30422	3
58	33'3	1051	17'5	4383	42'4	10044	23'7	17808	56'4	26140	89 7'5	30428	2
59	35'0	1088	21'4	4458	49'6	10157	36'4	17950	65 17'3	26262	33'8	30432	1
60	36'8	1125	25'4	4534	56'9	10272	49'2	18092	38'2	26383	90 0'0	30433	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	30° 0-0	0	30°52-0	1119	33°41-4	4509	39°13-9	10206	49° 6-4	17951	65°51-2	26127	60
1	0-0	0	53-8	1157	45-4	4585	21-3	10320	19-3	18092	66 12-2	26244	59
2	0-1	1	55-6	1196	49-5	4662	28-7	10435	32-3	18233	33-3	26361	58
3	0-1	3	57-5	1234	53-6	4739	36-3	10550	45-5	18374	54-5	26476	57
4	0-2	5	59-4	1274	57-7	4817	43-9	10666	58-8	18515	67 15-9	26590	56
5	0-4	8	31 1-3	1315	34 1-9	4895	51-5	10782	50 12-2	18657	37-4	26703	55
6	30° 0-5	11	31° 3-2	1355	34° 6-2	4974	39°59-3	10899	50°25-7	18799	67°59-1	26815	54
7	0-7	15	5-2	1397	10-5	5055	40 7-1	11016	39-3	18940	68 20-9	26925	53
8	0-9	20	7-2	1439	14-8	5136	15-0	11134	53-0	19082	42-8	27034	52
9	1-1	25	9-3	1482	19-2	5217	23-0	11253	51 6-9	19224	69 4-8	27142	51
10	1-4	31	11-4	1525	23-6	5298	31-0	11372	20-9	19366	27-0	27248	50
11	30° 1-7	38	31°13-5	1569	34°28-1	5381	40°39-1	11492	51°35-0	19508	69°49-3	27352	49
12	2-0	45	15-6	1614	32-6	5464	47-3	11612	49-2	19650	70 11-7	27455	48
13	2-4	53	17-8	1659	37-2	5548	55-6	11733	52 3-6	19792	34-3	27557	47
14	2-8	61	20-0	1705	41-8	5633	41 4-0	11855	18-1	19934	57-0	27657	46
15	3-2	70	22-3	1752	46-5	5718	12-4	11977	32-7	20076	71 19-8	27755	45
16	30° 3-6	79	31°24-5	1799	34°51-2	5803	41°20-9	12100	52°47-5	20218	71°42-7	27852	44
17	4-1	90	26-8	1847	56-0	5889	29-5	12223	53 2-4	20360	72 5-8	27947	43
18	4-6	101	29-2	1895	35 0-8	5977	38-2	12346	17-4	20502	28-9	28041	42
19	5-1	112	31-6	1944	5-7	6065	47-0	12470	32-5	20644	52-2	28133	41
20	5-7	124	34-0	1994	10-6	6153	55-8	12595	47-8	20786	73 15-6	28222	40
21	30° 6-3	137	31°36-5	2044	35°15-6	6242	42° 4-7	12720	54° 3-2	20928	73°39-1	28310	39
22	6-9	150	38-9	2095	20-6	6331	13-7	12846	18-7	21069	74 2-8	28397	38
23	7-5	164	41-5	2147	25-7	6422	22-8	12972	34-3	21211	26-5	28482	37
24	8-2	179	44-0	2199	30-8	6513	32-0	13099	50-1	21352	50-4	28565	36
25	8-9	194	46-6	2252	36-0	6605	41-3	13227	55 6-1	21493	75 14-3	28645	35
26	30° 9-6	210	31°49-2	2305	35°41-2	6697	42°50-7	13355	55°22-1	21634	75°38-4	28724	34
27	10-4	226	51-9	2359	46-5	6790	43 0-1	13483	38-3	21775	76 2-6	28801	33
28	11-2	243	54-6	2414	51-8	6883	9-6	13612	54-7	21915	26-8	28877	32
29	12-0	261	57-3	2470	57-2	6977	19-3	13741	56 11-1	22055	51-2	28950	31
30	12-8	280	32 0-1	2526	36 2-7	7071	29-0	13871	27-7	22195	77 15-7	29021	30
31	30°13-7	299	32° 2-9	2583	36° 8-2	7167	43°38-8	14001	56°44-5	22334	77°40-2	29090	29
32	14-6	318	5-8	2640	13-7	7263	48-7	14132	57 1-4	22473	78 4-8	29157	28
33	15-5	337	8-7	2699	19-4	7359	58-7	14263	18-4	22612	29-6	29222	27
34	16-5	358	11-6	2758	25-1	7457	44 8-8	14395	35-6	22751	54-5	29284	26
35	17-5	380	14-5	2817	30-8	7555	18-9	14527	52-9	22889	79 19-4	29344	25
36	30°18-5	402	32°17-5	2877	36°36-5	7653	44°29-2	14659	58°10-3	23026	79°44-3	29403	24
37	19-5	425	20-6	2938	42-4	7752	39-6	14792	27-9	23163	80 9-3	29459	23
38	20-6	448	23-7	2999	48-3	7852	50-0	14925	45-6	23300	34-5	29513	22
39	21-7	472	26-8	3060	54-3	7953	45 0-6	15059	59 3-5	23436	59-7	29564	21
40	22-9	497	29-9	3123	37 0-3	8054	11-3	15194	21-5	23571	81 24-9	29614	20
41	30°24-0	522	32°33-1	3186	37° 6-4	8156	45°22-0	15329	59°39-6	23706	81°50-3	29661	19
42	25-2	548	36-3	3250	12-5	8258	32-9	15464	57-9	23841	82 15-7	29705	18
43	26-5	575	39-6	3315	18-7	8360	43-9	15599	60 16-3	23975	41-1	29748	17
44	27-7	601	42-9	3380	25-0	8464	54-9	15734	34-9	24108	83 6-6	29788	16
45	29-0	629	46-3	3446	31-3	8569	46 6-1	15870	53-6	24240	32-2	29826	15
46	30°30-3	657	32°49-6	3512	37°37-7	8674	46°17-3	16007	61°12-4	24372	83°57-8	29861	14
47	31-7	686	53-0	3579	44-1	8779	28-7	16144	31-4	24503	84 23-5	29895	13
48	33-1	716	56-5	3647	50-6	8885	40-2	16281	50-6	24633	49-2	29925	12
49	34-5	746	33 0-0	3715	57-2	8992	51-8	16419	62 9-8	24762	85 15-0	29955	11
50	35-9	776	3-6	3784	38 3-8	9099	47 3-5	16557	29-3	24891	40-8	29981	10
51	30°37-4	808	33° 7-2	3853	38°10-5	9207	47°15-3	16695	62°48-8	25019	86° 6-6	30003	9
52	38-9	840	10-8	3923	17-3	9316	27-2	16834	63 8-5	25146	32-4	30024	8
53	40-4	872	14-5	3994	24-1	9425	39-2	16973	28-4	25272	58-3	30042	7
54	42-0	906	18-2	4066	31-0	9535	51-3	17112	48-4	25397	87 24-2	30058	6
55	43-6	940	22-0	4138	38-0	9645	48 3-5	17251	64 8-5	25521	50-2	30072	5
56	30°45-2	975	33°25-8	4211	38°45-1	9756	48°15-9	17390	64°28-8	25644	88°16-1	30083	4
57	46-9	1010	29-6	4284	52-2	9868	28-3	17530	49-2	25766	42-1	30092	3
58	48-6	1046	33-5	4358	59-3	9980	40-9	17670	65 9-7	25887	89 8-0	30098	2
59	50-3	1082	37-4	4433	39 6-6	10093	53-6	17810	30-4	26008	34-0	30102	1
60	52-0	1119	41-4	4509	13-9	10206	49 6-4	17951	51-2	26127	90 0-0	30103	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	30°15-0	0	31° 7-3	1114	33°57-4	4484	39°30-8	10140	49°23-5	17811	66° 4-1	25873	60
1	15-0	0	9-1	1151	34 1-4	4559	38-2	10253	36-4	17950	24-9	25988	59
2	15-1	1	10-9	1189	5-5	4635	45-7	10367	49-4	18089	45-9	26103	58
3	15-1	3	12-8	1228	9-6	4712	53-2	10481	50 2-5	18229	67 7-0	26216	57
4	15-2	5	14-7	1267	13-8	4790	40 0-8	10596	15-8	18368	28-2	26328	56
5	15-4	8	16-6	1307	18-0	4868	8-5	10711	29-1	18508	49-5	26439	55
6	30°15-5	11	31°18-6	1348	34°22-3	4947	40°16-3	10827	50°42-6	18648	68°11-0	26549	54
7	15-7	15	20-6	1389	26-6	5026	24-1	10944	56-2	18788	32-7	26658	53
8	15-9	20	22-6	1431	30-9	5106	32-0	11061	51 9-9	18928	54-4	26765	52
9	16-2	25	24-6	1474	35-3	5187	40-0	11179	23-8	19068	69 16-3	26870	51
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11	30°16-8	37	31°28-8	1561	34°44-3	5350	40°56-2	11416	51°51-8	19349	70° 0-4	27077	49
12	17-1	44	31-0	1605	48-8	5433	41 4-4	11535	52 6-0	19489	22-7	27178	48
13	17-4	52	33-2	1650	53-4	5516	12-7	11655	20-4	19629	45-1	27278	47
14	17-8	60	35-4	1696	58-0	5600	21-1	11775	34-8	19770	71 7-6	27376	46
15	18-2	69	37-6	1742	35 2-7	5685	29-5	11896	49-4	19910	30-2	27473	45
16	30°18-7	79	31°39-9	1789	35° 7-5	5770	41°38-1	12018	53° 4-1	20050	71°53-0	27568	44
17	19-1	89	42-3	1837	12-3	5856	46-7	12140	18-9	20190	72 15-8	27662	43
18	19-6	100	44-6	1885	17-1	5942	55-4	12262	33-9	20331	38-8	27753	42
19	20-1	111	47-0	1934	22-0	6029	42 4-1	12386	49-0	20471	73 1-9	27843	41
20	20-7	123	49-4	1983	26-9	6117	13-0	12509	54 4-2	20611	25-1	27932	40
21	30°21-3	136	31°51-9	2033	35°31-9	6205	42°21-9	12633	54°19-6	20751	73°48-4	28018	39
22	21-9	149	54-4	2084	36-9	6294	31-0	12758	35-0	20890	74 11-9	28103	38
23	22-6	163	56-9	2136	42-0	6384	40-1	12883	50-6	21030	35-4	28186	37
24	23-2	178	59-5	2188	47-2	6474	49-3	13009	55 6-4	21169	59-1	28268	36
25	23-9	193	32 2-1	2240	52-4	6565	58-5	13135	22-3	21308	75 22-8	28347	35
26	30°24-7	209	32° 4-8	2293	35°57-6	6657	43° 7-9	13262	55°38-3	21447	75°46-7	28425	34
27	25-4	225	7-4	2347	36 2-9	6749	17-3	13389	54-4	21586	76 10-6	28500	33
28	26-2	242	10-2	2402	8-3	6842	26-9	13516	56 10-7	21725	34-7	28574	32
29	27-0	260	12-9	2457	13-7	6935	36-5	13644	27-1	21863	58-8	28645	31
30	27-9	278	15-7	2513	19-1	7029	46-2	13773	43-6	22001	77 23-0	28715	30
31	30°28-8	297	32°18-5	2569	36°24-6	7124	43°56-0	13902	57° 0-3	22138	77°47-4	28783	29
32	29-7	316	21-4	2626	30-2	7219	44 6-0	14031	17-1	22275	78 11-8	28848	28
33	30-6	336	24-3	2684	35-9	7315	15-9	14161	34-1	22412	36-3	28912	27
34	31-6	357	27-2	2743	41-6	7412	26-0	14292	51-2	22548	79 0-9	28973	26
35	32-6	378	30-2	2802	47-3	7509	36-2	14423	58 8-4	22684	25-6	29033	25
36	30°33-6	400	32°33-2	2861	36°53-1	7607	44°46-5	14554	58°25-7	22820	79°50-3	29090	24
37	34-6	423	36-2	2921	59-0	7705	56-9	14685	43-2	22955	80 15-1	29145	23
38	35-7	446	39-3	2982	37 4-9	7805	45 7-3	14817	59 0-9	23090	40-0	29198	22
39	36-8	470	42-4	3044	10-9	7904	17-9	14950	18-7	23224	81 5-0	29248	21
40	38-0	494	45-6	3106	16-9	8005	28-5	15083	36-6	23357	30-0	29297	20
41	30°39-2	519	32°48-8	3169	37°23-0	8106	45°39-3	15216	59°54-6	23490	81°55-1	29343	19
42	40-4	545	52-0	3232	29-2	8207	50-2	15350	60 12-8	23623	82 20-3	29387	18
43	41-6	571	55-3	3296	35-4	8309	46 1-1	15484	31-2	23754	45-5	29429	17
44	42-9	598	58-7	3361	41-6	8412	12-2	15618	49-6	23885	83 10-7	29468	16
45	44-2	625	33 2-0	3426	48-0	8516	23-3	15753	61 8-2	24016	36-0	29505	15
46	30°45-5	654	33° 5-4	3492	37 54-4	8620	46°34-6	15888	61°27-0	24146	84° 1-4	29540	14
47	46-8	683	8-8	3559	38 0-9	8725	46-0	16023	45-9	24275	26-9	29572	13
48	48-2	712	12-3	3626	7-4	8830	57-4	16159	62 4-9	24403	52-3	29602	12
49	49-6	742	15-9	3694	14-0	8936	47 9-0	16295	24-1	24530	85 17-8	29630	11
50	51-1	773	19-4	3763	20-6	9042	20-7	16432	43-4	24657	43-3	29655	10
51	30°52-6	804	33°23-0	3832	38°27-3	9149	47°32-5	16568	63° 2-8	24783	86° 8-9	29678	9
52	54-1	836	26-7	3902	34-1	9257	44-4	16705	22-4	24908	34-5	29699	8
53	55-6	868	30-4	3972	41-0	9365	56-4	16843	42-1	25032	87 0-1	29717	7
54	57-2	902	34-1	4043	47-9	9474	48 8-5	16980	64 2-0	25155	25-8	29732	6
55	58-8	935	37-9	4115	54-9	9584	20-7	17118	22-0	25277	51-5	29746	5
56	31° 0-4	970	33°41-7	4188	39° 1-9	9694	48°33-0	17256	64°42-2	25398	88°17-2	29757	4
57	2-1	1005	45-5	4261	9-0	9805	45-5	17395	65 2-4	25519	42-9	29766	3
58	3-8	1040	49-4	4334	16-2	9916	58-0	17533	22-8	25638	89 8-6	29772	2
59	5-5	1077	53-4	4409	23-5	10028	49 10-7	17672	43-4	25755	34-3	29775	1
60	7-3	1114	57-4	4484	30-8	10140	23-5	17811	66 4-1	25873	90 0-0	29776	0
	11 H		10 H		9 H		8 H		7 H		6 H		m

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	30°30'0	0	31°22'6	1107	34°13'3	4458	39°47'7	10075	49°40'5	17670	66°16'8	25620	60
1	30'0	0	24'4	1145	17'4	4533	55'1	10187	53'3	17808	37'5	25734	59
2	30'1	1	26'2	1183	21'5	4608	40 2'6	10300	50 6'3	17945	58'3	25847	58
3	30'1	3	28'1	1222	25'6	4685	10'2	10413	19'4	18083	67 19'2	25958	57
4	30'2	5	30'0	1261	29'8	4762	17'8	10527	32'6	18222	40'3	26068	56
5	30'4	8	31'9	1301	34'0	4840	25'5	10641	46'0	18360	68 1'5	26178	55
6	30°30'5	11	31°33'9	1341	34°38'3	4918	40°33'3	10756	50°59'4	18498	68°22'9	26287	54
7	30'7	15	35'9	1382	42'6	4997	41'1	10872	51 13'0	18636	44'3	26392	53
8	30'9	20	37'9	1424	47'0	5077	49'0	10988	26'7	18775	69 5'9	26497	52
9	31'2	25	40'0	1466	51'4	5158	57'0	11104	40'5	18913	27'6	26601	51
10	31'4	31	42'0	1509	55'9	5239	41 5'1	11221	54'4	19051	49'5	26704	50
11	30°31'7	37	31°44'2	1552	35° 0'4	5320	41°13'3	11339	52° 8'5	19190	70°11'4	26804	49
12	32'1	44	46'3	1597	5'0	5402	21'5	11457	22'7	19329	33'5	26903	48
13	32'4	52	48'5	1642	9'6	5484	29'8	11576	37'0	19467	55'7	27002	47
14	32'8	60	50'8	1687	14'2	5567	38'2	11696	51'4	19606	71 18'1	27098	46
15	33'2	69	53'1	1733	18'9	5651	46'6	11816	53 5'9	19744	40'5	27193	45
16	30°33'7	78	31°55'3	1780	35°23'7	5735	41°55'2	11936	53°20'6	19883	72° 3'1	27287	44
17	34'1	89	57'6	1827	28'5	5821	42 3'8	12057	35'4	20021	25'8	27378	43
18	34'6	100	32 0'0	1874	33'3	5907	12'5	12178	50'3	20160	48'6	27468	42
19	35'2	111	2'4	1923	38'2	5994	21'2	12300	54 5'3	20298	73 11'5	27557	41
20	35'7	122	4'9	1973	43'2	6081	30'1	12423	20'5	20436	34'5	27644	40
21	30°36'3	135	32° 7'4	2023	35°48'2	6168	42°39'1	12546	54°35'8	20574	73°57'6	27729	39
22	36'9	148	9'9	2073	53'2	6257	48'1	12669	51'2	20712	74 20'8	27812	38
23	37'6	162	12'4	2124	58'3	6346	57'2	12793	55 6'8	20850	44'2	27893	37
24	38'3	177	15'0	2175	36 3'5	6436	43 6'4	12917	22'5	20987	75 7'6	27974	36
25	39'0	192	17'6	2228	8'7	6526	15'7	13043	38'3	21125	31'2	28051	35
26	30°39'7	208	32°20'3	2281	36°14'0	6617	43°25'1	13168	55°54'3	21261	75°54'8	28127	34
27	40'5	224	23'0	2335	19'3	6709	34'5	13294	56 10'3	21398	76 18'5	28202	33
28	41'3	241	25'7	2389	24'7	6801	44'1	13421	26'5	21535	42'4	28274	32
29	42'1	259	28'4	2444	30'1	6893	53'7	13548	42'9	21671	77 6'3	28344	31
30	42'9	277	31'2	2499	35'6	6987	44 3'4	13675	59'4	21807	30'3	28413	30
31	30°43'8	295	32°34'0	2556	36°41'1	7081	44°13'2	13803	57°16'0	21943	77°54'4	28479	29
32	44'7	314	36'9	2612	46'7	7176	23'1	13931	32'7	22078	78 18'6	28543	28
33	45'7	334	39'9	2669	52'4	7271	33'1	14060	49'6	22213	42'9	28606	27
34	46'6	355	42'8	2727	58'1	7367	43'2	14189	58 6'6	22347	79 7'3	28666	26
35	47'6	376	45'8	2786	37 3'8	7464	53'4	14318	23'8	22481	31'7	28724	25
36	30°48'7	398	32°48'8	2845	37° 9'6	7561	45° 3'7	14448	58°41'0	22615	79°56'2	28780	24
37	49'7	420	51'9	2905	15'5	7658	14'1	14579	58'5	22748	80 20'8	28834	23
38	50'8	444	55'0	2965	21'4	7757	24'5	14710	59 16'0	22881	45'5	28886	22
39	52'0	468	58'1	3027	27'5	7856	35'1	14840	33'7	23013	81 10'2	28935	21
40	53'1	492	33 1'3	3089	33'5	7956	45'7	14972	51'5	23144	35'0	28983	20
41	30°54'3	516	33° 4'5	3151	37°39'6	8056	45°56'5	15104	60° 9'5	23275	81°59'9	29028	19
42	55'5	542	7'8	3214	45'8	8156	46 7'3	15236	27'6	23405	82 24'8	29071	18
43	56'7	568	11'1	3278	52'0	8258	18'3	15369	45'8	23535	49'7	29113	17
44	58'0	595	14'4	3343	58'3	8360	29'4	15502	61 4'2	23665	83 14'8	29151	16
45	59'3	622	17'8	3408	38 4'7	8463	40'5	15635	22'7	23793	39'9	29187	15
46	31° 0'6	650	33°21'2	3474	38°11'1	8566	46°51'8	15768	61°41'4	23921	84° 5'0	29220	14
47	2'0	679	24'6	3540	17'6	8670	47 3'1	15902	62 0'2	24048	30'1	29252	13
48	3'4	708	28'1	3606	24'1	8774	14'6	16037	19'1	24174	55'4	29282	12
49	4'8	738	31'6	3674	30'7	8879	26'1	16172	38'1	24299	85 20'6	29310	11
50	6'3	769	35'2	3742	37'4	8985	37'8	16307	57'3	24424	45'9	29336	10
51	31° 7'8	800	33°38'8	3811	38°44'1	9091	47°49'6	16442	63°16'7	24548	86°11'2	29357	9
52	9'3	832	42'5	3880	50'9	9198	48 1'5	16577	36'2	24671	36'6	29376	8
53	10'8	864	46'2	3950	57'8	9306	13'5	16713	55'8	24793	87 1'9	29394	7
54	12'4	897	50'0	4021	39 4'7	9414	25'6	16849	64 15'5	24914	27'3	29410	6
55	14'0	930	53'8	4092	11'7	9522	37'8	16986	35'4	25034	52'7	29424	5
56	31°15'7	964	33°57'6	4164	39°18'8	9632	48°50'1	17122	64°55'4	25154	88°18'2	29434	4
57	17'3	1000	34 1'5	4236	25'9	9742	49 2'5	17259	65 15'5	25272	43'6	29442	3
58	19'0	1034	5'4	4310	33'1	9852	15'1	17396	35'8	25389	89 9'1	29448	2
59	20'8	1071	9'3	4384	40'4	9963	27'7	17533	56'2	25505	34'5	29452	1
60	22'6	1107	13'3	4458	47'7	10075	40'5	17670	66 16'8	25620	90 0'0	29453	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	30°45·0	0 31°37·8	1102 34°29·3	4433 40° 4·6	10008 49°57·3	17530 66°29·4	25369 60
1	45·0	0 39·6	1139 33·4	4507 12·0	10120 50 10·2	17666 49·9	25481 59
2	45·1	1 41·5	1177 37·5	4583 19·5	10232 23·1	17802 67 10·6	25592 58
3	45·1	3 43·3	1215 41·6	4659 27·1	10344 36·2	17938 31·4	25702 57
4	45·2	5 45·2	1254 45·8	4735 34·7	10457 49·4	18075 52·3	25810 56
5	45·4	8 47·2	1294 50·0	4812 42·4	10570 51 2·7	18211 68 13·4	25917 55
6	30°45·5	11 31°49·1	1334 34°54·3	4890 40°50·2	10684 51°16·2	18348 68°34·5	26023 54
7	45·7	15 51·1	1375 58·7	4968 58·0	10799 29·7	18484 55·8	26128 53
8	45·9	20 53·2	1416 35 3·1	5047 41 6·0	10914 43·4	18621 69 17·3	26232 52
9	46·2	25 55·3	1458 7·5	5127 14·0	11030 57·1	18758 38·8	26333 51
10	46·4	31 57·4	1501 12·0	5207 22·1	11146 52 11·0	18895 70 0·5	26434 50
11	30°46·7	37 31°59·5	1544 35°16·5	5288 41°30·2	11263 52°25·1	19032 70°22·3	26533 49
12	47·1	44 32 1·7	1588 21·1	5370 38·5	11380 39·2	19169 44·2	26631 48
13	47·4	52 3·9	1633 25·7	5452 46·8	11498 53·4	19305 71 6·3	26727 47
14	47·8	60 6·1	1678 30·4	5535 55·2	11616 53 7·8	19442 28·4	26822 46
15	48·2	69 8·4	1724 35·1	5618 42 3·6	11735 22·3	19579 50·7	26915 45
16	30°48·7	78 32°10·7	1770 35°39·8	5702 42°12·2	11854 53°37·0	19716 72°13·1	27007 44
17	49·2	88 13·1	1817 44·7	5787 20·8	11974 51·7	19852 35·6	27097 43
18	49·7	99 15·5	1865 49·5	5872 29·5	12095 54 6·6	19989 58·2	27186 42
19	50·2	110 17·9	1913 54·4	5958 38·3	12215 21·6	20126 73 20·9	27273 41
20	50·8	122 20·3	1962 59·4	6045 47·2	12337 36·7	20262 43·7	27358 40
21	30°51·4	135 32°22·8	2012 36° 4·4	6132 42°56·1	12459 54°51·9	20398 74° 6·7	27441 39
22	52·0	148 25·3	2062 9·5	6220 43 5·2	12581 55 7·3	20534 29·7	27523 38
23	52·6	162 27·9	2113 14·6	6308 14·3	12704 22·8	20670 52·8	27603 37
24	53·3	176 30·5	2164 19·8	6397 23·5	12827 38·5	20806 75 16·1	27681 36
25	54·0	191 33·1	2216 25·0	6487 32·8	12951 54·2	20941 39·4	27757 35
26	30°54·8	207 32°35·8	2269 36°30·3	6577 43°42·1	13075 56°10·1	21076 76° 2·9	27832 34
27	55·5	223 38·5	2322 35·6	6668 51·6	13200 26·1	21211 26·4	27905 33
28	56·3	240 41·2	2376 41·0	6760 44 1·2	13325 42·3	21346 50·0	27976 32
29	57·1	257 44·0	2431 46·5	6852 10·8	13451 58·6	21480 77 13·7	28045 31
30	58·0	275 46·8	2486 52·0	6944 20·5	13577 57 15·0	21614 37·5	28112 30
31	30°58·9	294 32°49·6	2542 36°57·5	7038 44°30·3	13704 57°31·5	21748 78° 1·4	28177 29
32	59·8	313 52·5	2598 37 3·1	7132 40·2	13831 48·2	21882 25·4	28240 28
33	31 0·7	333 55·4	2655 8·8	7227 50·2	13958 58 5·0	22015 49·5	28302 27
34	1·7	353 58·4	2713 14·5	7322 45 0·3	14086 21·9	22147 79 13·6	28361 26
35	2·7	374 33 1·4	2771 20·3	7418 10·5	14214 39·0	22279 37·8	28418 25
36	31° 3·8	396 33° 4·4	2830 37°26·1	7514 45°20·8	14343 58°56·2	22411 80° 2·1	28473 24
37	4·8	418 7·5	2890 32·0	7611 31·2	14472 59 13·5	22542 26·5	28526 23
38	5·9	441 10·6	2950 38·0	7709 41·6	14601 31·0	22672 50·9	28577 22
39	7·0	465 13·8	3010 44·0	7807 52·2	14731 48·6	22802 81 15·4	28626 21
40	8·2	489 17·0	3072 50·1	7906 46 2·8	14861 60 6·4	22932 39·9	28672 20
41	31° 9·4	514 33°20·2	3134 37°56·2	8005 46°13·6	14992 60°24·2	23061 82° 4·5	28716 19
42	10·6	539 23·4	3197 38 2·4	8105 24·4	15123 42·2	23190 29·2	28759 18
43	11·8	565 26·7	3260 8·6	8206 35·4	15254 61 0·4	23318 54·0	28799 17
44	13·1	592 30·1	3324 14·9	8307 46·4	15385 18·7	23445 83 18·8	28837 16
45	14·4	619 33·5	3389 21·3	8409 57·6	15517 37·1	23571 43·6	28872 15
46	31°15·8	647 33°36·9	3454 38°27·7	8512 47° 8·8	15650 61°55·6	23697 84° 8·5	28906 14
47	17·1	676 40·4	3520 34·2	8615 20·2	15782 62 14·3	23822 33·4	28937 13
48	18·5	705 43·9	3586 40·8	8719 31·6	15915 33·1	23946 58·4	28966 12
49	20·0	734 47·4	3653 47·4	8823 43·2	16048 52·1	24070 85 23·4	28992 11
50	21·4	765 51·0	3721 54·1	8928 54·9	16181 63 11·2	24193 48·4	29017 10
51	31°22·9	796 33°54·7	3789 39° 0·8	9033 48° 6·6	16315 63°30·4	24315 86°13·5	29039 9
52	24·5	827 58·3	3858 7·6	9139 18·5	16450 49·7	24436 38·6	29058 8
53	26·0	859 34 2·1	3928 14·5	9246 30·5	16584 64 9·2	24556 87 3·7	29076 7
54	27·6	892 5·8	3998 21·5	9353 42·5	16718 28·8	24675 28·8	29091 6
55	29·2	926 9·6	4069 28·5	9461 54·7	16853 48·6	24793 54·0	29104 5
56	31°30·9	960 34°13·5	4140 39°35·6	9569 49° 7·0	16988 65° 8·5	24910 88°19·2	29114 4
57	32·6	994 17·4	4212 42·7	9678 19·4	17123 28·5	25027 44·4	29122 3
58	34·3	1030 21·3	4285 49·9	9788 32·0	17259 48·7	25142 89 9·6	29128 2
59	36·0	1065 25·3	4359 57·2	9898 44·6	17394 66 8·9	25256 34·8	29132 1
60	37·8	1102 29·3	4433 40 4·6	10008 57·3	17530 29·4	25369 90 0·0	29133 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	31° 0-0	0 31°53-0	1096 34°45-2	4407 40°21-4	9942 50°14-1	17390 66°41-8	25120 60
1	0-0	0 54-9	1133 49-3	4481 28-8	10052 26-9	17525 67 2-2	25230 59
2	0-1	1 56-7	1171 53-4	4556 36-3	10163 39-9	17659 22-7	25340 58
3	0-1	3 58-6	1209 57-6	4632 43-9	10275 52-9	17794 43-4	25447 57
4	0-2	5 32 0-5	1247 35 1-8	4708 51-5	10387 51 6-1	17928 68 4-1	25554 56
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	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H		1 H		2 H		3 H		4 H		5 H		
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3	15.1	3	13.9	1202	13.5	4604	41 0.7	10206	51 9.5	17649	55.2	25194	57
4	15.2	5	15.8	1241	17.8	4680	8.3	10317	22.6	17783	68 15.8	25299	56
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6	31°15.5	11	32°19.7	1320	35°26.3	4833	41°23.9	10541	51°49.3	18049	68°57.5	25505	54
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8	15.9	19	23.8	1401	35.1	4988	39.7	10767	16.3	18316	39.6	25706	52
9	16.2	24	25.9	1443	39.6	5067	47.7	10880	30.0	18450	70 0.8	25804	51
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13	17.5	51	34.6	1615	57.9	5387	20.6	11340	26.1	18983	26.9	26185	47
14	17.8	59	36.9	1660	36 2.6	5469	29.0	11456	40.4	19117	48.7	26276	46
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18	19.7	98	46.3	1845	21.9	5802	43 3.4	11926	38.7	19650	73 17.1	26627	42
19	20.2	109	48.7	1892	26.8	5887	12.2	12045	53.7	19782	39.4	26711	41
20	20.8	121	51.2	1941	31.8	5972	21.1	12164	55 8.7	19915	74 1.8	26793	40
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28	26.4	237	12.2	2350	13.7	6677	35.1	13134	57 13.3	20970	77 5.0	27389	32
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53	56.4	850	33.7	3883	47.9	9126	49 4.1	16326	35.7	24085	87 7.1	28447	7
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	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
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3	30-1	3	29-1	1196	29-5	4577	17-4	10137	26-0	17505	68 6-9	24943	57
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53	11-6	846	49-5	3860	40 4-5	9065	20-8	16197	48-8	23853	87 8-8	28138	7
54	13-2	878	53-3	3929	11-5	9170	32-9	16327	65 8-0	23966	33-2	28152	6
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	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
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9	46-2	24	56-5	1427	11-6	5006	21-2	10731	53 2-5	18142	22-3	25284	51
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18	49-8	96	17-0	1824	54-1	5732	37-0	11758	55 10-4	19312	35-5	26078	42
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24	53-5	172	32-3	2116	24-7	6242	31-0	12464	41-0	20086	48-8	26539	36
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28	56-5	235	43-2	2323	46-2	6594	45 8-8	12943	43-9	20598	77 19-5	26813	32
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32	32 0-1	306	54-7	2540	8-5	6956	47-9	13429	48-7	21104	51-5	27058	28
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34	2-0	346	34 0-7	2652	20-0	7140	46 8-0	13674	21-8	21355	38-0	27169	26
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43	12-3	553	29-4	3186	14-6	7998	42-8	14795	57-2	22458	83 10-2	27575	17
44	13-6	579	32-8	3249	21-0	8096	53-9	14921	62 15-0	22578	34-1	27610	16
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49	20-6	719	50-4	3570	53-7	8596	50-4	15556	46-3	23165	34-0	27754	11
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59	36-9	1042	28-8	4258	41 4-0	9637	51-1	16843	58-3	24278	35-8	27883	1
60	38-7	1078	32-9	4330	11-4	9744	51 3-7	16972	67 18-2	24383	90 0-0	27884	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 II	1 II	2 II	3 II	4 II	5 II	
0	32° 0-0	0 32°54-0	1072 35°48-7	4304 41°28-0	9677 51°20-1	16834 67°30-0	24141 60
1	0-0	0 55-8	1108 52-8	4376 35-5	9784 32-8	16962 49-9	24244 59
2	0-1	1 57-7	1145 57-0	4449 43-0	9891 45-6	17090 68 9-9	24346 58
3	0-1	3 59-6	1183 36 1-2	4522 50-6	9999 58-6	17218 30-0	24447 57
4	0-2	5 33 1-6	1221 5-5	4596 58-3	10107 52 11-6	17347 50-1	24546 56
5	0-4	7 3-5	1259 9-8	4671 42 6-1	10216 24-8	17475 69 10-5	24645 55
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7	0-7	15 7-6	1338 18-6	4822 21-8	10435 51-4	17732 51-4	24838 53
8	0-9	19 9-7	1378 23-1	4899 29-8	10545 53 4-9	17860 70 12-1	24933 52
9	1-2	24 11-8	1419 27-5	4976 37-9	10656 18-5	17989 32-8	25026 51
10	1-5	30 14-0	1460 32-1	5054 46-0	10767 32-2	18118 53-7	25119 50
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13	2-5	50 20-6	1588 46-0	5289 10-8	11103 14-1	18503 57-0	25387 47
14	2-9	58 22-9	1632 50-7	5369 19-2	11216 28-2	18632 72 18-3	25474 46
15	3-3	67 25-2	1676 55-5	5450 27-7	11330 42-5	18760 39-7	25560 45
16	32° 3-8	76 33°27-6	1722 37° 0-4	5531 43°36-3	11444 54°56-9	18888 73° 1-2	25644 44
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19	5-3	108 34-9	1861 15-2	5779 44 2-5	11788 40-8	19272 74 6-3	25886 41
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23	7-8	157 45-1	2054 35-7	6117 38-6	12255 41-0	19782 34-4	26188 37
24	8-5	171 47-7	2104 40-9	6203 47-8	12373 56-4	19908 56-7	26259 36
25	9-2	186 50-4	2155 46-2	6289 57-1	12491 57 11-8	20035 76 19-0	26328 35
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28	11-6	233 58-7	2310 38 2-4	6552 25-5	12847 58-9	20413 26-6	26528 32
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32	15-1	305 10-2	2525 24-8	6911 46 4-6	13329 59 3-5	20912 57-8	26769 28
33	16-1	324 13-2	2581 30-5	7002 14-6	13450 19-9	21035 79 20-8	26824 27
34	17-1	344 16-2	2637 36-3	7094 24-7	13571 36-4	21158 43-9	26878 26
35	18-1	364 19-2	2693 42-2	7186 34-8	13693 53-1	21282 80 7-1	26930 25
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38	21-4	429 28-6	2867 39 0-0	7467 47 5-9	14061 43-9	21647 81 16-8	27074 22
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47	32-9	658 59-0	3420 56-9	8339 44-1	15181 22-9	22713 48-9	27401 13
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	11 II	10 II	9 II	8 II	7 II	6 II	m

m	0 H		1 H		2 H		3 H		4 H		5 H		
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2	15·1	1	12·9	1139	12·9	4422	59·6	9823	52 1·8	16948	21·3	24102	58
3	15·1	3	14·9	1176	17·1	4495	42 7·2	9930	14·7	17075	41·3	24201	57
4	15·2	5	16·8	1213	21·4	4569	14·9	10037	27·7	17202	69 1·3	24299	56
5	15·4	7	18·8	1251	25·7	4643	22·7	10145	40·9	17329	21·5	24396	55
6	32°15·5	11	33°20·8	1290	36°30·1	4718	42°30·5	10253	52°54·1	17456	69°41·8	24491	54
7	15·7	15	22·9	1330	34·5	4793	38·4	10362	53 7·4	17583	70 2·2	24586	53
8	15·9	19	25·0	1370	39·0	4869	46·4	10471	20·9	17710	22·7	24679	52
9	16·2	24	27·1	1411	43·5	4945	54·5	10581	34·5	17837	43·3	24771	51
10	16·5	30	29·3	1452	48·0	5022	43 2·6	10691	48·1	17964	71 4·0	24861	50
11	32°16·8	36	33°31·5	1494	36°52·6	5100	43°10·8	10801	54° 1·9	18091	71°24·8	24951	49
12	17·1	43	33·7	1536	57·3	5178	19·1	10912	15·8	18218	45·7	25039	48
13	17·5	50	35·9	1579	37 2·0	5257	27·4	11024	29·9	18345	72 6·8	25126	47
14	17·9	58	38·2	1623	6·8	5337	35·9	11136	44·0	18471	27·9	25211	46
15	18·3	67	40·6	1667	11·6	5417	44·4	11248	58·2	18598	49·1	25295	45
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17	19·3	86	45·3	1758	21·3	5579	44 1·6	11475	27·0	18851	31·9	25458	43
18	19·8	96	47·8	1804	26·3	5661	10·3	11589	41·6	18977	53·4	25538	42
19	20·3	107	50·3	1850	31·3	5743	19·2	11704	56·3	19103	74 15·0	25616	41
20	20·9	118	52·8	1897	36·3	5826	28·1	11819	56 11·1	19229	36·7	25692	40
21	32°21·5	130	33°55·3	1945	37°41·4	5909	44°37·0	11934	56°26·1	19355	74°58·5	25767	39
22	22·2	143	57·9	1994	46·6	5993	46·1	12049	41·1	19481	75 20·4	25840	38
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24	23·5	170	3·1	2092	57·0	6164	45 4·5	12282	57 11·6	19732	76 4·5	25982	36
25	24·3	185	5·8	2143	38 2·3	6250	13·8	12399	27·0	19856	26·7	26050	35
26	32°25·0	200	34° 8·6	2194	38° 7·7	6336	45°23·1	12516	57°42·5	19980	76°48·9	26117	34
27	25·8	216	11·3	2245	13·1	6423	32·6	12634	58·1	20104	77 11·3	26182	33
28	26·6	232	14·1	2297	18·6	6511	42·2	12752	58 13·9	20228	33·7	26246	32
29	27·5	249	17·0	2350	24·1	6599	51·8	12870	29·8	20352	56·2	26308	31
30	28·4	266	19·8	2403	29·7	6688	46 1·5	12989	45·8	20475	78 18·7	26368	30
31	32°29·3	284	34°22·7	2457	38°35·3	6777	46°11·3	13109	59° 1·9	20598	78°41·4	26426	29
32	30·2	303	25·7	2511	41·0	6867	21·2	13228	18·1	20720	79 4·1	26482	28
33	31·2	322	28·7	2566	46·8	6957	31·2	13348	34·5	20842	26·8	26537	27
34	32·2	342	31·7	2622	52·6	7048	41·3	13468	50·9	20964	49·7	26589	26
35	33·2	362	34·8	2678	58·4	7140	51·5	13589	60 7·5	21085	12·6	26640	25
36	32°34·3	384	34°37·9	2735	39° 4·3	7232	47° 1·7	13710	60°24·3	21206	80°35·6	26689	24
37	35·4	405	41·0	2792	10·3	7325	12·0	13831	41·1	21326	58·7	26737	23
38	36·5	427	44·2	2850	16·4	7418	22·5	13953	58·1	21446	81 21·8	26782	22
39	37·6	450	47·4	2909	22·5	7512	33·0	14075	61 15·1	21565	44·9	26825	21
40	38·8	474	50·7	2968	28·6	7607	43·6	14198	32·4	21683	82 8·1	26867	20
41	32°40·0	498	34°54·0	3028	39°34·8	7702	47°54·4	14320	61°49·7	21801	82°31·4	26906	19
42	41·3	522	57·3	3088	41·1	7797	48 5·2	14443	62 7·1	21919	54·7	26944	18
43	42·6	547	35 0·7	3149	47·4	7893	16·0	14566	24·7	22035	83 18·1	26980	17
44	43·9	573	4·1	3211	53·8	7990	27·0	14690	42·4	22151	41·5	27014	16
45	45·2	599	7·6	3273	40 0·2	8087	38·1	14813	63 0·2	22267	84 4·9	27046	15
46	32°46·6	626	35°11·1	3336	40° 6·7	8185	48°49·3	14937	63°18·1	22381	84°28·4	27075	14
47	48·0	654	14·6	3399	13·3	8284	49 0·6	15062	36·2	22495	51·9	27103	13
48	49·4	682	18·2	3463	19·9	8383	12·0	15186	54·4	22609	85 15·5	27128	12
49	50·9	711	21·8	3528	26·6	8482	23·4	15311	64 12·7	22721	39·1	27152	11
50	52·4	740	25·5	3593	33·4	8582	35·0	15436	31·1	22833	86 2·7	27174	10
51	32°53·9	770	35°29·2	3659	40°40·2	8682	49°46·7	15561	64°49·6	22943	86°26·4	27194	9
52	55·5	801	33·0	3725	47·1	8783	58·4	15686	65 8·3	23053	50·0	27211	8
53	57·1	832	36·8	3792	54·0	8885	50 10·3	15812	27·1	23163	87 13·7	27227	7
54	58·7	863	40·6	3860	41 1·1	8987	22·3	15937	45·9	23271	37·5	27240	6
55	33 0·4	896	44·5	3928	8·1	9090	34·4	16063	66 5·0	23378	88 1·2	27251	5
56	33° 2·1	929	35°48·4	3997	41°15·3	9193	50°46·5	16189	66°24·1	23484	88°24·9	27261	4
57	3·8	962	52·4	4066	22·5	9297	58·8	16316	43·3	23590	48·7	27268	3
58	5·6	996	56·4	4136	29·8	9401	51 11·2	16442	67 2·7	23694	89 12·5	27273	2
59	7·4	1031	36 0·4	4207	37·1	9505	23·7	16568	22·2	23798	36·2	27276	1
60	9·2	1066	4·5	4278	44·6	9610	36·3	16695	41·8	23900	90 0·0	27277	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 II		1 II		2 II		3 II		4 II		5 II		
0	32°30'0	0	33°24'4	1060	36°20'3	4252	42° 1'0	9544	51°52'4	16557	67°53'4	23662	60
1	30'0	0	26'3	1096	24'5	4323	8'5	9649	52 5'1	16682	68 13'0	23761	59
2	30'1	1	28'2	1132	28'7	4395	16'1	9754	17'9	16807	32'7	23859	58
3	30'1	3	30'1	1169	32'9	4467	23'7	9860	30'8	16933	52'5	23957	57
4	30'2	5	32'1	1206	37'2	4540	31'4	9966	43'7	17058	69 12'4	24053	56
5	30'4	7	34'1	1244	41'6	4614	39'2	10073	56'8	17183	32'4	24148	55
6	32°30'5	11	33°36'1	1283	36°46'0	4688	42°47'1	10180	53°10'0	17309	69°52'5	24242	54
7	30'7	14	38'2	1322	50'4	4763	55'0	10288	23'3	17434	70 12'8	24335	53
8	30'9	19	40'2	1362	54'9	4838	43 3'0	10396	36'8	17560	33'1	24427	52
9	31'2	24	42'4	1403	59'4	4915	11'0	10505	50'3	17685	53'5	24517	51
10	31'5	29	44'5	1444	37 4'0	4992	19'1	10615	54 3'9	17810	71 14'1	24606	50
11	32°31'8	36	33°46'7	1485	37° 8'6	5069	43°27'3	10725	54°17'7	17935	71°34'8	24694	49
12	32'1	43	49'0	1527	13'3	5146	35'6	10835	31'5	18061	55'5	24781	48
13	32'5	49	51'3	1570	18'0	5224	44'0	10945	45'5	18186	72 16'4	24866	47
14	32'9	58	53'6	1613	22'7	5303	52'4	11056	59'6	18311	37'4	24950	46
15	33'3	66	55'9	1657	27'6	5383	44 0'9	11168	55 13'8	18436	58'4	25032	45
16	32°33'8	75	33°58'3	1702	37°32'4	5463	44° 9'5	11280	55°28'1	18561	73°19'6	25113	44
17	34'3	85	34 0'7	1748	37'3	5544	18'2	11392	42'5	18686	40'8	25193	43
18	34'8	95	3'1	1794	42'3	5625	26'9	11505	57'0	18811	74 2'2	25271	42
19	35'4	106	5'6	1840	47'3	5707	35'7	11618	56 11'7	18935	23'7	25347	41
20	35'9	118	8'1	1886	52'4	5789	44'6	11732	26'4	19059	45'2	25422	40
21	32°36'5	130	34°10'7	1934	37°57'5	5872	44°53'6	11846	56°41'3	19183	75° 6'8	25496	39
22	37'2	142	13'3	1982	38 2'7	5955	45 2'7	11960	56'3	19307	28'5	25568	38
23	37'9	156	15'9	2030	7'9	6039	11'8	12076	57 11'4	19431	50'3	25638	37
24	38'6	170	18'6	2080	13'2	6124	21'0	12191	26'6	19554	76 12'2	25707	36
25	39'3	184	21'3	2130	18'5	6210	30'3	12307	42'0	19677	34'2	25774	35
26	32°40'1	199	34°24'0	2180	38°23'6	6296	45°39'7	12423	57°57'4	19800	76°56'3	25840	34
27	40'8	214	26'8	2232	29'3	6382	49'2	12540	58 13'0	19923	77 18'4	25904	33
28	41'7	231	29'6	2284	34'8	6469	58'7	12656	28'7	20045	40'6	25966	32
29	42'5	248	32'4	2336	40'3	6557	46 8'4	12774	44'5	20167	78 2'9	26027	31
30	43'4	264	35'3	2388	45'9	6645	18'1	12891	59 0'4	20288	25'3	26085	30
31	32°44'3	283	34°38'2	2442	38°51'5	6733	46°27'9	13009	59°16'5	20409	78°47'7	26143	29
32	45'3	302	41'2	2496	57'2	6822	37'8	13128	32'6	20530	79 10'2	26198	28
33	46'3	320	44'2	2551	39 3'0	6912	47'8	13247	48'9	20650	32'8	26251	27
34	47'2	340	47'2	2606	8'8	7002	57'9	13366	60 5'3	20770	55'4	26303	26
35	48'3	360	50'3	2662	14'7	7093	47 8'0	13485	21'8	20889	80 18'1	26353	25
36	32°49'3	382	34°53'4	2718	39°20'6	7185	47°18'3	13605	60°38'5	21008	80°40'9	26401	24
37	50'4	403	56'6	2776	26'6	7277	28'6	13725	55'2	21127	81 3'8	26448	23
38	51'6	425	59'8	2834	32'6	7370	39'0	13846	61 12'1	21245	26'6	26493	22
39	52'7	447	35 3'0	2892	38'7	7463	49'5	13966	29'1	21362	49'6	26535	21
40	53'9	471	6'3	2950	44'9	7557	48 0'1	14087	46'2	21478	82 12'6	26576	20
41	32°55'1	495	35° 9'6	3009	39°51'1	7651	48°10'8	14209	62° 3'4	21595	82°35'6	26615	19
42	56'4	519	12'9	3069	57'4	7746	21'6	14330	20'8	21711	58'7	26652	18
43	57'7	544	16'3	3130	40 3'7	7841	32'5	14452	38'3	21826	83 21'9	26687	17
44	59'0	569	19'8	3192	10'1	7937	43'5	14574	55'9	21940	45'1	26720	16
45	33 0'3	596	23'2	3254	16'6	8033	54'6	14697	63 13'6	22053	84 8'3	26751	15
46	33° 1'7	623	35°26'7	3316	40°23'1	8130	49° 5'7	14819	63°31'4	22166	84°31'6	26780	14
47	3'1	650	30'3	3379	29'7	8228	17'0	14942	49'4	22279	54'9	26807	13
48	4'6	678	33'9	3442	36'3	8326	28'3	15065	64 7'4	22390	85 18'2	26832	12
49	6'1	707	37'5	3507	43'0	8425	39'8	15188	25'6	22501	41'6	26856	11
50	7'6	736	41'2	3572	49'8	8524	51'4	15312	43'9	22611	86 5'0	26878	10
51	33° 9'1	765	35°44'9	3637	40°56'6	8623	50° 3'0	15436	65° 2'3	22720	86°28'4	26897	9
52	10'7	796	48'7	3703	41 3'5	8724	14'8	15560	20'9	22828	51'9	26913	8
53	12'3	827	52'5	3770	10'5	8825	26'6	15684	39'6	22935	87 15'3	26929	7
54	13'9	859	56'3	3837	17'5	8926	38'6	15808	58'3	23042	38'8	26943	6
55	15'6	891	36 0'2	3904	24'6	9027	50'6	15932	66 17'2	23148	88 2'3	26953	5
56	33°17'3	923	36° 4'2	3972	41°31'7	9130	51° 2'8	16057	66°36'2	23253	88°25'8	26962	4
57	19'0	956	8'2	4041	39'0	9233	15'0	16182	55'3	23356	49'4	26969	3
58	20'8	990	12'2	4111	46'3	9336	27'4	16307	67 14'6	23458	89 12'9	26974	2
59	22'6	1025	16'2	4181	53'6	9440	39'8	16432	33'9	23560	36'5	26977	1
60	24'4	1060	20'3	4252	42 1'0	9544	52'4	16557	53'4	23662	90 0'0	26978	0
	11 II	10 II	9 II	8 II	7 II	6 II	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	32°45·0	0 33°39·6	1054 36°36·1	4226 42°17·5	9478 52° 8·4	16419 68° 4·9	23424 60
1	45·0	0 41·5	1090 40·3	4297 25·0	9582 21·1	16542 24·3	23522 59
2	45·1	1 43·4	1126 44·5	4368 32·5	9686 33·8	16666 43·9	23619 58
3	45·1	3 45·3	1162 48·8	4440 40·2	9791 46·7	16790 69 3·5	23715 57
4	45·2	5 47·3	1199 53·1	4512 47·9	9896 59·6	16914 23·3	23809 56
5	45·4	7 49·3	1237 57·4	4585 55·7	10002 53 12·7	17038 43·1	23903 55
6	32°45·5	11 33°51·3	1276 37° 1·8	4659 43° 3·5	10108 53°25·9	17162 70° 3·2	23995 54
7	45·7	14 53·4	1315 6·3	4733 11·4	10215 39·1	17285 23·2	24087 53
8	46·0	19 55·5	1354 10·8	4808 19·4	10322 52·5	17409 43·4	24177 52
9	46·2	23 57·6	1394 15·3	4884 27·5	10430 54 6·0	17533 71 3·7	24266 51
10	46·5	29 59·8	1435 19·9	4960 35·6	10539 19·6	17657 24·1	24353 50
11	32°46·8	36 34° 2·0	1477 37°24·5	5037 43°43·8	10648 54°33·3	17781 71°44·6	24439 49
12	47·1	42 4·3	1519 29·2	5114 52·1	10757 47·1	17904 72 5·2	24524 48
13	47·5	49 6·6	1561 33·9	5192 44 0·5	10866 55 1·0	18028 25·9	24608 47
14	47·9	57 8·9	1604 38·7	5270 8·9	10976 15·1	18152 46·7	24690 46
15	48·3	66 11·2	1648 43·5	5349 17·4	11086 29·2	18275 73 7·6	24771 45
16	32°48·8	75 34°13·6	1692 37°48·4	5428 44°26·0	11198 55°43·5	18398 73°28·6	24851 44
17	49·3	84 16·0	1737 53·3	5508 34·7	11309 57·8	18521 49·7	24929 43
18	49·8	95 18·5	1783 58·3	5589 43·4	11421 56 12·3	18644 74 10·9	25006 42
19	50·4	106 21·0	1829 38 3·3	5670 52·3	11533 26·9	18767 32·2	25081 41
20	51·0	117 23·5	1876 8·4	5752 45 1·2	11645 41·6	18890 53·5	25155 40
21	32°51·6	128 34°26·1	1923 38°13·5	5834 45°10·1	11758 56°56·4	19012 75°15·0	25227 39
22	52·2	142 28·7	1971 18·7	5917 19·2	11872 57 11·4	19135 36·5	25298 38
23	52·9	155 31·3	2019 23·9	6001 28·3	11986 26·4	19257 58·1	25367 37
24	53·6	169 34·0	2068 29·2	6085 37·6	12100 41·6	19378 76 19·8	25434 36
25	54·3	183 36·7	2118 34·5	6170 46·9	12215 56·9	19499 41·6	25500 35
26	32°55·1	198 34°39·4	2168 38°39·9	6255 45°56·2	12330 58°12·3	19621 77° 3·5	25565 34
27	55·9	213 42·2	2219 45·4	6341 46 5·7	12445 27·8	19742 25·4	25628 33
28	56·7	229 45·0	2270 50·9	6427 15·2	12561 43·4	19862 47·5	25689 32
29	57·6	246 47·9	2322 56·4	6514 24·9	12677 59·1	19982 78 9·6	25748 31
30	58·5	263 50·8	2375 39 2·0	6601 34·6	12794 59 15·0	20102 31·7	25806 30
31	32°59·4	281 34°53·7	2428 39° 7·7	6689 46°44·4	12911 59°30·9	20221 78°54·0	25862 29
32	33 0·3	300 56·7	2482 13·4	6778 54·3	13028 47·0	20340 79 16·3	25917 28
33	1·3	319 59·7	2536 19·2	6867 47 4·3	13145 60 3·2	20459 38·7	25969 27
34	2·3	338 35 2·7	2591 25·0	6957 14·3	13263 19·6	20577 80 1·1	26020 26
35	3·3	358 5·8	2646 30·9	7047 24·5	13381 36·0	20695 23·6	26069 25
36	33° 4·4	379 35° 8·9	2702 39°36·8	7138 47°34·7	13500 60 52·5	20812 80°46·2	26116 24
37	5·6	401 12·1	2759 42·8	7229 45·0	13619 61 9·2	20929 81 8·8	26162 23
38	6·7	423 15·3	2816 48·9	7321 55·4	13738 26·0	21045 31·5	26205 22
39	7·8	445 18·5	2874 55·0	7413 48 6·0	13857 42·9	21161 54·2	26247 21
40	9·0	468 21·8	2933 40 1·1	7506 16·6	13977 59·9	21276 82 17·0	26287 20
41	33°10·2	492 35°25·2	2992 40° 7·4	7600 48°27·2	14097 62°17·1	21390 82°39·8	26325 19
42	11·5	516 28·5	3052 13·7	7694 38·0	14217 34·3	21503 83 2·7	26362 18
43	12·8	541 31·9	3112 20·0	7789 48·9	14338 51·7	21617 25·6	26396 17
44	14·1	567 35·4	3173 26·4	7884 59·9	14459 63 9·2	21730 48·6	26428 16
45	15·5	593 38·9	3234 32·9	7979 49 10·9	14580 26·8	21842 84 11·6	26459 15
46	33°16·9	619 35°42·4	3296 40°39·4	8075 49°22·1	14701 63°44·6	21953 84°34·7	26488 14
47	18·3	647 45·9	3359 46·0	8172 33·3	14823 64 2·4	22063 57·8	26514 13
48	19·7	674 49·5	3422 52·6	8270 44·7	14944 20·4	22173 85 20·9	26539 12
49	21·2	703 53·2	3486 59·4	8368 56·1	15066 38·4	22282 44·0	26562 11
50	22·7	732 56·9	3550 41 6·2	8466 50 7·6	15188 56·6	22390 86 7·2	26582 10
51	33°24·2	761 36° 0·6	3615 41°13·0	8565 50°19·3	15311 65°14·9	22498 86°30·4	26602 9
52	25·8	792 4·4	3680 19·9	8664 31·0	15433 33·4	22604 53·7	26619 8
53	27·4	822 8·2	3746 26·8	8764 42·8	15556 51·9	22710 87 16·9	26634 7
54	29·1	854 12·1	3813 33·9	8864 54·8	15679 66 10·6	22815 40·2	26646 6
55	30·8	886 16·0	3880 41·0	8965 51 6·8	15802 29·3	22919 88 3·5	26657 5
56	33°32·5	918 36°19·9	3948 41°48·2	9067 51°18·9	15925 66°48·2	23022 88°26·8	26666 4
57	34·2	951 23·9	4017 55·4	9169 31·2	16048 67 7·2	23124 50·1	26673 3
58	36·0	985 27·9	4086 42 2·7	9271 43·5	16172 26·3	23225 89 13·4	26678 2
59	37·8	1019 32·0	4156 10·1	9374 55·9	16295 45·5	23325 36·7	26681 1
60	39·6	1054 36·1	4226 17·5	9478 52 8·4	16419 68 4·9	23424 90 0·0	26682 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	33° 0-0	0 33°54.8	1048 36°51.9	4199 42°33.9	9411 52°24.4	16281 68°16.2	23188 60
1	0-0	0 56.7	1083 56.1	4269 41.4	9514 37.0	16403 35.5	23285 59
2	0-1	1 58.6	1119 37 0.3	4340 48.9	9617 49.7	16526 54.9	23380 58
3	0-1	3 34 0.5	1155 4.6	4412 56.6	9721 53 2.5	16648 69 14.5	23474 57
4	0-2	5 2.5	1192 8.9	4484 43 4.3	9825 15.4	16770 34.1	23568 56
5	0-4	7 4.5	1230 13.3	4556 12.1	9930 28.5	16893 53.8	23660 55
6	33° 0-5	10 34° 6.6	1268 37°17.7	4630 43°19.9	10036 53°41.6	17015 70°13.7	23751 54
7	0-7	14 8.7	1307 22.1	4704 27.9	10142 54.8	17137 33.6	23840 53
8	1-0	18 10.8	1346 26.6	4778 35.9	10248 54 8.2	17259 53.7	23929 52
9	1-2	23 12.9	1386 31.2	4853 43.9	10355 21.6	17382 71 13.8	24016 51
10	1-5	29 15.1	1427 35.8	4929 52.1	10462 35.2	17504 34.0	24102 50
11	33° 1-8	35 34°17.3	1468 37°40.4	5005 44° 0.3	10570 54°48.8	17626 71°54.4	24187 49
12	2-2	42 19.6	1510 45.1	5082 8.6	10678 55 2.6	17748 72 14.8	24270 48
13	2-5	49 21.9	1552 49.8	5159 17.0	10787 16.5	17870 35.4	24352 47
14	2-9	57 24.2	1595 54.6	5236 25.4	10896 30.5	17992 56.0	24433 46
15	3-4	65 26.5	1638 59.4	5315 33.9	11005 44.6	18114 73 16.8	24513 45
16	33° 3-8	74 34°28.9	1682 38° 4.4	5394 44°42.5	11115 55°58.8	18236 73°37.6	24591 44
17	4-3	84 31.4	1727 9.3	5473 51.2	11225 56 13.1	18358 58.5	24668 43
18	4-9	94 33.8	1772 14.3	5553 59.9	11336 27.5	18479 74 19.5	24743 42
19	5-4	105 36.3	1818 19.3	5634 45 8.7	11447 42.1	18600 40.6	24817 41
20	6-0	116 38.9	1865 24.4	5715 17.6	11559 56.7	18721 75 1.8	24890 40
21	33° 6-6	128 34°41.4	1912 38°29.5	5797 45°26.6	11671 57°11.5	18842 75°23.1	24960 39
22	7-3	141 44.0	1959 34.7	5879 35.6	11783 26.3	18962 44.4	25029 38
23	7-9	154 46.7	2007 40.0	5962 44.8	11895 41.3	19083 76 5.9	25097 37
24	8-6	168 49.4	2056 45.3	6046 54.0	12009 56.4	19203 27.4	25164 36
25	9-4	182 52.1	2105 50.6	6130 46 3.3	12123 58 11.6	19323 49.0	25229 35
26	33°10-1	197 34°54.8	2155 38°56.0	6214 46°12.7	12237 58°27.0	19442 77°10.7	25292 34
27	10-9	212 57.6	2205 39 1.5	6299 22.1	12351 42.4	19561 32.4	25354 33
28	11-8	228 35 0.5	2256 7.0	6385 31.7	12465 57.9	19680 54.2	25414 32
29	12-6	245 3.3	2308 12.5	6471 41.3	12580 59 13.6	19799 78 16.1	25472 31
30	13-5	262 6.2	2360 18.1	6558 51.0	12696 29.4	19917 38.1	25529 30
31	33°14-4	280 35° 9.2	2413 39°23.8	6645 47° 0.8	12812 59°45.3	20035 79° 0.2	25584 29
32	15-4	298 12.2	2467 29.5	6733 10.7	12928 60 1.3	20152 22.3	25638 28
33	16-4	317 15.2	2521 35.3	6821 20.7	13044 17.4	20268 44.5	25689 27
34	17-4	336 18.2	2575 41.1	6910 30.7	13161 33.7	20385 80 6.7	25739 26
35	18-4	356 21.3	2630 47.0	6999 40.9	13278 50.0	20501 29.0	25787 25
36	33°19-5	377 35°24.5	2686 39°53.0	7090 47°51.1	13395 61° 6.5	20617 80°51.4	25834 24
37	20-6	399 27.6	2742 59.0	7181 48 1.4	13512 23.1	20732 81 13.8	25879 23
38	21-7	420 30.8	2799 40 5.1	7272 11.8	13630 39.8	20846 36.3	25922 22
39	22-9	443 34.1	2856 11.2	7363 22.3	13749 56.6	20960 58.8	25962 21
40	24-1	466 37.4	2915 17.4	7456 32.9	13867 62 13.5	21074 82 21.4	26001 20
41	33°25-3	489 35°40.7	2974 40°23.6	7549 48°43.6	13986 62°30.6	21186 82°44.0	26039 19
42	26-6	513 44.1	3033 29.9	7642 54.3	14105 47.8	21298 83 6.7	26074 18
43	27-9	538 47.5	3093 36.2	7735 49 5.2	14224 63 5.1	21410 29.4	26108 17
44	29-2	563 51.0	3153 42.7	7830 16.1	14343 22.4	21521 52.1	26140 16
45	30-6	589 54.5	3214 49.2	7925 27.2	14463 40.0	21631 84 14.9	26170 15
46	33°32-0	616 35°58.0	3276 40°55.7	8020 49°38.3	14583 63°57.6	21740 84°37.8	26198 14
47	33-4	643 36 1.6	3338 41 2.3	8116 49.5	14703 64 15.3	21849 85 0.6	26224 13
48	34-8	670 5.2	3401 8.9	8213 50 0.9	14824 33.2	21957 23.5	26249 12
49	36-3	699 8.8	3464 15.7	8310 12.3	14944 51.1	22064 46.5	26271 11
50	37-8	727 12.5	3528 22.5	8408 23.8	15065 65 9.2	22171 86 9.4	26292 10
51	33°39-4	757 36°16.3	3593 41°29.3	8506 50°35.4	15186 65°27.4	22277 86°32.4	26310 9
52	41-0	787 20.1	3658 36.2	8605 47.1	15307 45.7	22382 55.4	26327 8
53	42-6	818 23.9	3724 43.2	8704 58.9	15428 66 4.2	22486 87 18.5	26341 7
54	44-2	849 27.8	3790 50.2	8803 51 10.8	15550 22.7	22589 41.5	26354 6
55	45-9	880 31.7	3856 57.3	8902 22.9	15672 41.3	22691 88 4.6	26365 5
56	33°47-6	913 36°35.6	3924 42° 4.5	9003 51°34.9	15793 67° 0.1	22792 88°27.6	26374 4
57	49-4	946 39.6	3992 11.8	9105 47.2	15915 19.0	22893 50.7	26380 3
58	51-2	979 43.7	4061 19.1	9207 59.5	16037 37.9	22992 89 13.8	26385 2
59	53-0	1013 47.8	4130 26.4	9309 52 11.9	16159 57.0	23090 36.9	26388 1
60	54.8	1048 51.9	4199 33.9	9411 24.4	16281 68 16.2	23188 90 0.0	26389 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	33°15.0	0	34°10.0	1042	37° 7.7	4173	42°50.2	9344	52°40.2	16144	68°27.5	22954	60
1	15.0	0	11.9	1077	11.9	4243	57.7	9446	52.8	16265	46.6	23049	59
2	15.1	1	13.8	1113	16.1	4313	43 5.3	9549	53 5.5	16386	69 5.9	23142	58
3	15.1	3	15.8	1149	20.4	4384	12.9	9652	18.2	16506	25.3	23235	57
4	15.2	5	17.8	1186	24.7	4456	20.7	9755	31.1	16627	44.8	23327	56
5	15.4	7	19.8	1223	29.1	4528	28.5	9859	44.1	16748	70 4.4	23417	55
6	33°15.5	10	34°21.8	1261	37°33.5	4601	43°36.3	9964	53°57.2	16869	70°24.1	23507	54
7	15.7	14	23.9	1300	38.0	4674	44.2	10069	54 10.4	16990	43.9	23595	53
8	16.0	18	26.0	1339	42.5	4748	52.2	10174	23.7	17110	71 3.8	23682	52
9	16.2	23	28.2	1378	47.0	4822	44 0.3	10280	37.1	17231	23.8	23768	51
10	16.5	29	30.4	1419	51.6	4897	8.5	10386	50.6	17352	43.8	23852	50
11	33°16.8	35	34°32.6	1459	37°56.3	4973	44°16.7	10493	55° 4.2	17473	72° 4.0	23936	49
12	17.2	41	34.9	1501	38 1.0	5049	25.0	10600	18.0	17593	24.3	24018	48
13	17.5	49	37.2	1543	5.7	5126	33.3	10708	31.8	17714	44.7	24099	47
14	17.9	56	39.5	1586	10.5	5203	41.8	10816	45.7	17834	73 5.2	24179	46
15	18.4	65	41.9	1629	15.4	5281	50.3	10924	59.8	17954	25.7	24257	45
16	33°18.8	74	34°44.3	1673	38°20.3	5359	44°58.9	11033	56°13.9	18074	73°46.4	24333	44
17	19.3	84	46.7	1717	25.2	5438	45 7.5	11142	28.2	18194	74 7.2	24409	43
18	19.9	94	49.2	1762	30.2	5517	16.3	11252	42.6	18314	28.0	24483	42
19	20.4	104	51.7	1807	35.3	5597	25.1	11362	57.1	18434	48.9	24556	41
20	21.0	116	54.2	1853	40.4	5678	34.0	11473	57 11.7	18553	75 9.9	24627	40
21	33°21.6	128	34°56.8	1900	38°45.5	5759	45°43.0	11584	57°26.4	18672	75°31.0	24696	39
22	22.3	140	59.4	1947	50.7	5841	52.0	11695	41.2	18791	52.2	24765	38
23	23.0	153	35 2.1	1995	56.0	5923	46 1.2	11806	56.1	18910	76 13.5	24832	37
24	23.7	167	4.8	2044	39 1.3	6006	10.4	11918	58 11.1	19028	34.8	24896	36
25	24.4	181	7.5	2093	6.6	6089	19.7	12030	26.3	19146	56.2	24960	35
26	33°25.2	196	35°10.3	2142	39°12.0	6173	46°29.0	12143	58°41.5	19264	77°17.7	25022	34
27	26.0	211	13.1	2192	17.5	6258	38.5	12257	56.9	19382	39.3	25083	33
28	26.8	227	15.9	2243	23.0	6343	48.0	12370	59 12.4	19499	78 0.9	25142	32
29	27.7	243	18.8	2295	28.6	6428	57.7	12484	28.0	19616	22.6	25199	31
30	28.6	260	21.7	2347	34.2	6514	47 7.4	12598	43.7	19732	44.4	25255	30
31	33°29.5	278	35°24.6	2399	39°39.9	6601	47°17.2	12713	59°59.5	19848	79° 6.3	25309	29
32	30.4	296	27.6	2452	45.6	6688	27.0	12827	60 15.5	19964	28.2	25361	28
33	31.4	315	30.7	2506	51.4	6776	37.0	12943	31.5	20079	50.2	25412	27
34	32.4	334	33.7	2560	57.3	6864	47.0	13058	47.7	20194	80 12.2	25461	26
35	33.5	354	36.8	2615	40 3.2	6953	57.2	13174	61 4.0	20308	34.3	25508	25
36	33°34.6	375	35°40.0	2670	40° 9.1	7043	48° 7.4	13290	61°20.3	20422	80°56.5	25554	24
37	35.7	396	43.2	2726	15.1	7133	17.7	13406	36.8	20535	81 18.7	25598	23
38	36.8	418	46.4	2783	21.2	7223	28.1	13523	53.5	20648	41.0	25640	22
39	38.0	440	49.6	2840	27.3	7314	38.6	13640	62 10.2	20760	82 3.3	25680	21
40	39.2	463	52.9	2898	33.5	7405	49.1	13757	27.0	20872	25.7	25718	20
41	33°40.4	486	35°56.3	2956	40°39.8	7497	48°59.8	13875	62°44.0	20984	82°48.1	25755	19
42	41.7	510	59.7	3015	46.1	7590	49 10.6	13992	63 1.1	21094	83 10.6	25790	18
43	43.0	535	36 3.1	3074	52.5	7683	21.4	14110	18.2	21204	33.1	25823	17
44	44.3	560	6.5	3134	58.9	7777	32.3	14228	35.5	21313	55.6	25854	16
45	45.7	586	10.0	3195	41 5.4	7871	43.3	14347	52.9	21421	84 18.2	25884	15
46	33°47.1	612	36°13.6	3256	41°11.9	7966	49°54.5	14465	64°10.5	21529	84°40.8	25912	14
47	48.5	639	17.2	3318	18.5	8061	50 5.7	14584	28.1	21636	85 3.5	25937	13
48	50.0	667	20.8	3380	25.2	8157	17.0	14703	45.8	21743	26.2	25961	12
49	51.5	695	24.5	3443	31.9	8253	28.4	14823	65 3.7	21848	48.9	25983	11
50	53.0	723	28.2	3507	38.7	8349	39.9	14942	21.7	21953	86 11.6	26003	10
51	33°54.5	753	36°31.9	3571	41°45.6	8446	50°51.5	15062	65°39.8	22057	86°34.4	26021	9
52	56.1	782	35.7	3635	52.5	8544	51 3.2	15181	58.0	22160	57.2	26037	8
53	57.7	813	39.6	3700	59.5	8642	14.9	15301	66 16.3	22263	87 20.0	26052	7
54	59.4	844	43.5	3766	42 6.5	8741	26.8	15421	34.7	22364	42.8	26064	6
55	34 1.1	875	47.4	3833	13.6	8840	38.8	15541	53.2	22465	88 5.7	26075	5
56	34° 2.8	908	36°51.3	3900	42°20.8	8940	51°50.9	15662	67°11.8	22564	88°28.5	26083	4
57	4.5	940	55.4	3967	28.1	9040	52 3.1	15782	30.6	22663	51.4	26090	3
58	6.4	974	59.4	4035	35.4	9141	15.3	15903	49.4	22761	89 14.3	26095	2
59	8.2	1007	37 3.5	4104	42.7	9242	27.7	16023	68 8.4	22858	37.1	26098	1
60	10.0	1042	7.7	4173	50.2	9344	40.2	16144	27.5	22954	90 0.0	26099	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	33°30'0	0 34°25'2	1035 37°23'4	4147 43° 6'5	9277 52°55'9	16007 68°38'6	22722 60
1	30'0	0 27'1	1070 27'6	4216 14'0	9378 53 8'5	16126 57'6	22815 59
2	30'1	1 29'0	1106 31'8	4286 21'6	9479 21'1	16245 69 16'8	22907 58
3	30'1	3 31'0	1142 36'1	4356 29'2	9582 33'9	16364 36'0	22998 57
4	30'2	5 33'0	1179 40'5	4427 37'0	9685 46'7	16484 55'3	23088 56
5	30'4	7 35'0	1216 44'9	4499 44'8	9788 59'7	16604 70 14'8	23177 55
6	33°30'5	10 34°37'1	1254 37°49'3	4571 43°52'6	9891 54°12'7	16724 70°34'3	23265 54
7	30'7	14 39'2	1292 53'8	4644 44 0'5	9995 25'9	16843 54'0	23352 53
8	31'0	18 41'3	1331 58'3	4717 8'5	10100 39'1	16962 71 13'7	23437 52
9	31'2	23 43'5	1370 38 2'9	4791 16'6	10205 52'5	17081 33'6	23522 51
10	31'5	29 45'7	1410 7'5	4866 24'8	10310 55 6'0	17200 53'5	23605 50
11	33°31'8	35 34°47'9	1451 38°12'1	4941 44°33'0	10416 55°19'5	17319 72°13'5	23687 49
12	32'2	41 50'2	1492 16'8	5017 41'3	10522 33'2	17438 33'7	23768 48
13	32'6	48 52'5	1534 21'6	5093 49'6	10629 47'0	17557 53'9	23847 47
14	33'0	56 54'8	1576 26'4	5169 58'1	10736 56 0'9	17676 73 14'2	23925 46
15	33'4	64 57'2	1619 31'3	5246 45 6'6	10843 14'9	17795 34'6	24002 45
16	33°33'9	74 34°59'6	1663 38°36'2	5324 45°15'2	10951 56°29'0	17913 73°55'1	24078 44
17	34'4	83 35 2'0	1707 41'1	5403 23'9	11059 43'2	18031 74 15'7	24152 43
18	34'9	93 4'5	1751 46'2	5482 32'6	11168 57'5	18149 36'4	24224 42
19	35'4	104 7'0	1796 51'2	5561 41'4	11277 57 11'9	18267 57'1	24295 41
20	36'0	115 9'6	1842 56'3	5641 50'3	11386 26'5	18385 75 18'0	24365 40
21	33°36'6	127 35°12'2	1889 39° 1'5	5722 45°59'3	11496 57°41'1	18503 75°38'9	24434 39
22	37'3	139 14'8	1936 6'7	5803 46 8'3	11606 55'9	18620 59'9	24501 38
23	38'0	152 17'4	1983 12'0	5884 17'5	11716 58 10'8	18737 76 21'0	24567 37
24	38'7	166 20'1	2031 17'3	5966 26'7	11827 25'7	18854 42'1	24630 36
25	39'4	180 22'9	2080 22'6	6049 36'0	11938 40'8	18971 77 3'4	24693 35
26	33°40'2	194 35°25'6	2129 39°28'1	6132 46°45'3	12050 58°56'0	19087 77°24'7	24753 34
27	41'0	210 28'4	2179 33'6	6216 54'8	12162 59 11'3	19203 46'1	24814 33
28	41'9	225 31'3	2230 39'1	6300 47 4'3	12275 26'7	19319 78 7'5	24872 32
29	42'7	242 34'2	2281 44'6	6385 13'9	12388 42'3	19434 29'1	24928 31
30	43'6	259 37'1	2333 50'3	6471 23'6	12501 57'9	19548 50'7	24983 30
31	33°44'5	277 35°40'1	2385 39°56'0	6557 47°33'4	12614 60°13'6	19663 79°12'3	25035 29
32	45'5	294 43'1	2437 40 1'7	6643 43'3	12728 29'5	19777 34'0	25087 28
33	46'5	313 46'1	2490 7'5	6730 53'2	12842 45'5	19891 55'8	25137 27
34	47'5	331 49'2	2544 13'4	6818 48 3'3	12956 61 1'5	20004 80 17'7	25186 26
35	48'6	352 52'3	2599 19'3	6906 13'4	13070 17'7	20116 39'6	25232 25
36	33°49'7	372 35°55'5	2654 40°25'2	6995 48°23'6	13185 61°34'0	20228 81° 1'5	25276 24
37	50'8	393 58'7	2709 31'3	7084 33'9	13300 50'4	20340 23'5	25319 23
38	51'9	415 36 1'9	2765 37'3	7174 44'3	13416 62 7'0	20451 45'6	25361 22
39	53'1	437 5'2	2822 43'5	7264 54'8	13531 23'6	20562 82 7'7	25400 21
40	54'3	460 8'5	2879 49'7	7355 49 5'3	13647 40'4	20672 29'9	25438 20
41	33°55'5	483 36°11'8	2937 40°55'9	7446 49°16'0	13763 62°57'2	20781 82°52'1	25474 19
42	56'8	507 15'2	2996 41 2'3	7538 26'7	13880 63 14'2	20890 83 14'4	25508 18
43	58'1	532 18'6	3055 8'6	7630 37'5	13997 31'3	20999 36'7	25541 17
44	59'4	557 22'1	3115 15'1	7723 48'4	14114 48'5	21106 59'0	25572 16
45	34 0'8	583 25'6	3175 21'6	7816 59'4	14231 64 5'8	21213 84 21'4	25600 15
46	34° 2'2	608 36°29'2	3236 41°28'1	7910 50°10'5	14348 64°23'2	21319 84°43'8	25627 14
47	3'6	635 32'8	3297 34'7	8005 21'7	14465 40'8	21425 85 6'3	25652 13
48	5'1	663 36'4	3359 41'4	8100 33'0	14583 58'4	21529 28'7	25676 12
49	6'6	691 40'1	3422 48'1	8195 44'4	14701 65 16'1	21633 51'2	25698 11
50	8'1	719 43'8	3485 54'9	8291 55'9	14819 34'0	21737 86 13'8	25718 10
51	34° 9'7	749 36°47'6	3548 42° 1'8	8387 51° 7'4	14937 65°52'0	21839 86°36'3	25735 9
52	11'3	778 51'4	3612 8'7	8484 19'1	15055 66 10'1	21940 58'9	25750 8
53	12'9	808 55'2	3677 15'7	8581 30'9	15174 28'2	22041 87 21'5	25765 7
54	14'6	839 59'1	3742 22'8	8679 42'7	15293 46'5	22141 44'1	25777 6
55	16'3	870 37 3'1	3808 29'9	8778 54'7	15412 67 4'9	22240 88 6'7	25788 5
56	34°18'0	902 37° 7'0	3875 42°37'1	8877 52° 6'7	15531 67°23'5	22338 88°29'4	25796 4
57	19'7	935 11'1	3942 44'3	8976 18'9	15650 42'1	22436 52'0	25802 3
58	21'5	968 15'1	4009 51'6	9076 31'1	15769 68 0'8	22532 89 14'7	25807 2
59	23'4	1001 19'2	4078 59'0	9176 43'5	15888 19'6	22627 37'3	25810 1
60	25'2	1035 23'4	4147 43 6'5	9277 55'9	16007 38'6	22722 90 0'0	25811 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	33°45-0	0	34°40-4	1030	37°39-1	4120	43°22-7	9210	53°11-5	15870	68°49-6	22490	60
1	45-0	0	42-3	1064	43-3	4189	30-2	9311	24-1	15988	69 8-5	22582	59
2	45-1	1	44-2	1099	47-6	4259	37-8	9412	36-7	16106	27-5	22673	58
3	45-1	3	46-2	1135	51-9	4329	45-5	9513	49-4	16224	46-6	22763	57
4	45-2	5	48-2	1172	56-2	4399	53-2	9614	54 2-2	16342	70 5-9	22851	56
5	45-4	7	50-2	1209	38 0-6	4470	44 1-0	9716	15-1	16460	25-1	22939	55
6	33°45-5	10	34°52-3	1246	38° 5-1	4542	44° 8-9	9819	54°28-1	16578	70°44-5	23025	54
7	45-7	14	54-4	1284	9-6	4614	16-8	9922	41-2	16696	71 4-0	23111	53
8	46-0	18	56-5	1323	14-1	4687	24-8	10026	54-5	16813	23-6	23195	52
9	46-2	23	58-7	1362	18-7	4760	32-9	10130	55 7-8	16931	43-3	23278	51
10	46-5	28	35 0-9	1402	23-3	4834	41-0	10234	21-2	17049	72 3-1	23360	50
11	33°46-8	35	35° 3-1	1442	38°28-0	4909	44°49-3	10339	55°34-7	17167	72°23-0	23440	49
12	47-2	41	5-4	1483	32-7	4984	57-6	10444	48-4	17284	43-0	23519	48
13	47-6	48	7-7	1525	37-5	5059	45 5-9	10549	56 2-1	17402	73 3-0	23597	47
14	48-0	56	10-1	1567	42-3	5135	14-4	10655	15-9	17519	23-2	23674	46
15	48-4	64	12-5	1609	47-2	5212	22-9	10762	29-9	17636	43-4	23750	45
16	33°48-9	73	35°14-9	1652	38°52-1	5289	45°31-5	10869	56°43-9	17753	74° 3-7	23824	44
17	49-4	82	17-3	1696	57-0	5367	40-1	10976	58-1	17870	24-2	23897	43
18	49-9	92	19-8	1741	39 2-0	5445	48-9	11083	57 12-4	17986	44-7	23968	42
19	50-5	103	22-3	1786	7-1	5524	57-7	11191	26-7	18103	75 5-3	24038	41
20	51-1	114	24-9	1831	12-2	5604	46 6-6	11300	41-2	18219	25-9	24107	40
21	33°51-7	126	35°27-5	1877	39°17-4	5684	46°15-6	11408	57°55-8	18335	75°46-7	24174	39
22	52-3	138	30-1	1924	22-6	5764	24-6	11517	58 10-5	18451	76 7-5	24240	38
23	53-0	151	32-8	1971	27-9	5845	33-7	11627	25-3	18567	28-4	24305	37
24	53-7	165	35-5	2019	33-2	5927	42-9	11737	40-2	18682	49-4	24367	36
25	54-5	179	38-3	2067	38-6	6009	52-2	11847	55-2	18797	77 10-5	24429	35
26	33°55-3	193	35°41-0	2116	39°44-0	6091	47° 1-6	11957	59°10-4	18911	77°31-6	24489	34
27	56-1	208	43-8	2166	49-5	6174	11-0	12068	25-6	19025	52-8	24547	33
28	56-9	224	46-7	2216	55-0	6258	20-5	12179	40-9	19139	78 14-1	24604	32
29	57-8	241	49-6	2267	40 0-6	6343	30-1	12291	56-4	19253	35-4	24659	31
30	58-7	257	52-5	2318	6-3	6428	39-8	12403	60 11-9	19366	56-8	24713	30
31	33°59-6	275	35°55-5	2370	40°12-0	6513	47°49-6	12515	60°27-6	19479	79°18-3	24765	29
32	34 0-6	293	58-5	2422	17-7	6599	59-5	12628	43-4	19591	39-8	24816	28
33	1-6	311	1-6	2475	23-5	6685	48 9-4	12741	59-3	19703	80 1-4	24864	27
34	2-6	330	4-7	2529	29-4	6772	19-4	12854	61 15-3	19815	23-1	24912	26
35	3-6	350	7-8	2583	35-3	6859	29-5	12967	31-4	19926	44-8	24957	25
36	34° 4-7	371	36°10-9	2638	40°41-3	6947	48°39-7	13080	61°47-6	20036	81° 6-5	25001	24
37	5-8	391	14-1	2693	47-3	7036	50-0	13194	62 4-0	20146	28-3	25043	23
38	7-0	413	17-4	2749	53-4	7125	49 0-4	13308	20-4	20255	50-2	25084	22
39	8-2	435	20-7	2805	59-6	7214	10-8	13423	37-0	20365	82 12-1	25123	21
40	9-4	458	24-0	2862	41 5-8	7304	21-4	13538	53-6	20473	34-1	25160	20
41	34°10-6	481	36°27-3	2919	41°12-0	7395	49°32-0	13653	63°10-4	20581	82°56-1	25195	19
42	11-9	504	30-7	2977	18-4	7486	42-7	13768	27-3	20688	83 18-2	25228	18
43	13-2	529	34-2	3036	24-8	7578	53-6	13883	44-3	20794	40-3	25261	17
44	14-6	554	37-7	3095	31-2	7670	50 4-5	13999	64 1-3	20900	84 2-4	25291	16
45	15-9	579	41-2	3155	37-7	7762	15-5	14115	18-6	21006	24-6	25319	15
46	34°17-3	605	36°44-8	3216	41°44-3	7855	50°26-5	14231	64°35-9	21110	84°46-8	25346	14
47	18-8	632	48-4	3277	50-9	7949	37-7	14347	53-3	21214	85 9-0	25370	13
48	20-2	659	52-0	3338	57-6	8043	49-0	14463	65 10-8	21317	31-3	25393	12
49	21-7	687	55-7	3400	42 4-3	8138	51 0-3	14580	28-5	21420	53-6	25415	11
50	23-3	715	59-4	3463	11-1	8233	11-8	14697	46-2	21521	86 15-9	25434	10
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53	28-1	803	10-9	3654	31-9	8521	46-7	15048	40-1	21821	23-0	25481	7
54	29-7	834	14-8	3719	39-0	8618	58-5	15165	58-3	21920	45-4	25493	6
55	31-4	865	18-7	3785	46-1	8716	52 10-5	15282	67 16-6	22017	88 7-8	25503	5
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57	34-9	929	26-7	3917	43 0-6	8912	34-6	15517	53-5	22209	52-7	25518	3
58	36-7	962	30-8	3984	7-9	9011	46-8	15635	68 12-1	22304	89 15-1	25522	2
59	38-5	996	34-9	4052	15-3	9110	59-1	15753	30-8	22398	37-6	25525	1
60	40-4	1030	39-1	4120	22-7	9210	53 11-5	15870	49-6	22490	90 0-0	25526	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	34° 0' 0	0 34°55.6	1023 37°54.8	4094 43°38.9	9143 53°27.1	15735 69° 0.4	22261 60
1	0' 0	0 57.5	1058 59.0	4162 46.4	9243 39.6	15851 19.2	22351 59
2	0' 1	1 59.4	1093 38 3.3	4231 54.0	9343 52.1	15967 38.1	22440 58
3	0' 1	3 35 1.4	1129 7.6	4301 44 1.7	9443 54 4.8	16084 57.1	22529 57
4	0' 2	5 3.4	1165 12.0	4371 9.4	9544 17.6	16200 70 16.1	22616 56
5	0' 4	7 5.5	1201 16.4	4441 17.2	9645 30.5	16316 35.3	22702 55
6	34° 0' 5	10 35° 7.5	1238 38°20.8	4512 44°25.1	9746 54°43.4	16433 70°54.6	22787 54
7	0' 7	14 9.6	1276 25.3	4584 33.0	9848 56.5	16549 71 13.9	22871 53
8	1' 0	18 11.8	1315 29.8	4656 41.0	9951 55 9.7	16665 33.4	22953 52
9	1' 2	23 14.0	1354 34.4	4729 49.1	10054 23.0	16782 52.9	23035 51
10	1' 5	28 16.2	1393 39.1	4802 57.2	10157 36.3	16898 72 12.6	23116 50
11	34° 1' 8	34 35°18.4	1433 38°43.8	4876 45° 5.5	10261 55°49.8	17014 72°32.3	23195 49
12	2' 2	41 20.7	1474 48.5	4951 13.8	10366 56 3.4	17130 52.1	23273 48
13	2' 6	48 23.0	1515 53.3	5026 22.1	10471 17.1	17246 73 12.0	23350 47
14	3' 0	56 25.4	1557 58.1	5101 30.6	10576 30.9	17362 32.0	23425 46
15	3' 4	64 27.8	1599 39 3.0	5177 39.1	10681 44.8	17478 52.1	23499 45
16	34° 3' 9	73 35°30.2	1642 39° 7.9	5254 45°47.7	10786 56°58.8	17593 74°12.3	23572 44
17	4' 4	82 32.6	1686 12.9	5331 56.3	10892 57 12.9	17708 32.5	23644 43
18	4' 9	92 35.1	1730 17.9	5409 46 5.1	10999 27.1	17823 52.9	23715 42
19	5' 5	102 37.7	1775 23.0	5487 13.9	11106 41.4	17938 75 13.3	23783 41
20	6' 1	114 40.2	1820 28.1	5566 22.8	11213 55.8	18053 33.8	23850 40
21	34° 6' 7	125 35°42.8	1866 39°33.3	5646 46°31.7	11321 58°10.4	18167 75°54.4	23916 39
22	7' 4	137 45.5	1913 38.5	5726 40.8	11429 25.0	18281 76 15.0	23981 38
23	8' 1	150 48.2	1960 43.8	5806 49.9	11537 39.7	18395 35.8	24045 37
24	8' 8	164 50.9	2007 49.2	5887 59.1	11645 54.6	18509 56.6	24106 36
25	9' 5	178 53.6	2055 54.6	5968 47 8.4	11754 59 9.5	18622 77 17.4	24166 35
26	34° 10' 3	192 35°56.4	2103 40° 0.0	6051 47°17.7	11864 59°24.6	18735 77°38.4	24225 34
27	11' 1	208 59.2	2152 5.5	6133 27.2	11974 39.8	18848 59.4	24283 33
28	11' 9	223 36 2.1	2202 11.0	6216 36.7	12084 55.0	18961 78 20.5	24339 32
29	12' 8	239 5.0	2253 16.6	6299 46.3	12195 60 10.4	19073 41.7	24393 31
30	13' 7	256 8.0	2304 22.3	6383 56.0	12306 25.9	19184 79 2.9	24446 30
31	34° 14' 6	273 36°10.9	2355 40°28.0	6468 48° 5.7	12417 60°41.5	19295 79°24.2	24497 29
32	15' 6	291 13.9	2407 33.7	6554 15.6	12528 57.2	19406 45.5	24546 28
33	16' 6	309 17.0	2459 39.5	6640 25.5	12639 61 13.0	19517 80 6.9	24594 27
34	17' 6	328 20.1	2512 45.4	6726 35.5	12751 28.9	19627 28.4	24641 26
35	18' 7	348 23.2	2566 51.3	6813 45.6	12863 45.0	19736 49.9	24685 25
36	34° 19' 8	368 36°26.4	2621 40°57.3	6900 48°55.8	12975 62° 1.1	19845 81°11.5	24728 24
37	20' 9	389 29.6	2676 41 3.4	6987 49 6.1	13088 17.3	19953 33.1	24770 23
38	22' 1	411 32.9	2731 70.5	7075 16.4	13201 33.7	20061 54.8	24811 22
39	23' 3	432 36.2	2787 15.6	7164 26.9	13315 50.2	20168 82 16.5	24849 21
40	24' 5	455 39.5	2844 21.8	7254 37.4	13428 63 6.7	20275 38.2	24885 20
41	34° 25' 7	478 36°42.9	2901 41°28.1	7344 49°48.0	13542 63°23.4	20381 83° 0.0	24919 19
42	27' 0	502 46.3	2959 34.5	7434 58.7	13656 40.2	20487 21.9	24952 18
43	28' 3	525 49.7	3017 40.8	7524 50 9.5	13770 57.1	20592 43.8	24983 17
44	29' 7	550 53.2	3076 47.3	7616 20.4	13884 64 14.1	20696 84 5.7	25012 16
45	31' 0	576 56.7	3135 53.8	7708 31.4	13999 31.2	20800 27.7	25040 15
46	34° 32' 4	602 37° 0.3	3195 42° 0.4	7800 50°42.4	14113 64°48.4	20903 84°49.7	25066 14
47	33' 9	628 3.9	3256 7.0	7892 53.6	14228 65 5.7	21005 85 11.7	25091 13
48	35' 4	655 7.6	3317 13.7	7986 51 4.8	14343 23.1	21106 33.8	25114 12
49	36' 9	683 11.3	3379 20.4	8080 16.2	14459 40.7	21207 55.9	25134 11
50	38' 4	710 15.0	3441 27.2	8174 27.6	14574 58.3	21308 86 18.0	25153 10
51	34° 40' 0	739 37°18.8	3504 42°34.1	8269 51°39.1	14690 66°16.1	21407 86°40.1	25170 9
52	41' 6	769 22.6	3567 41.1	8364 50.7	14806 33.9	21505 87 2.3	25186 8
53	43' 2	798 26.5	3631 48.1	8460 52 2.4	14921 51.9	21603 24.5	25200 7
54	44' 9	829 30.4	3696 55.1	8556 14.2	15037 67 9.9	21699 46.7	25212 6
55	46' 6	860 34.4	3761 43 2.3	8653 26.1	15153 28.1	21795 88 8.9	25221 5
56	34° 48' 3	892 37°38.4	3826 43° 9.5	8750 52°38.1	15270 67°46.4	21890 88°31.1	25229 4
57	50' 1	923 42.4	3892 16.7	8848 50.2	15386 68 4.7	21985 53.3	25236 3
58	51' 9	956 46.5	3958 24.1	8946 53 2.4	15503 23.2	22078 89 15.5	25240 2
59	53' 7	989 50.6	4026 31.5	9044 14.7	15619 41.8	22170 37.8	25243 1
60	55' 6	1023 54.8	4094 38.9	9143 27.1	15735 69 0.4	22261 90 0.0	25244 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	34°15.0	0	35°10.8	1017	38 10.5	4068	43 55.0	9076	53°42.5	15599	69°11.2	22034	60
1	15.0	0	12.7	1052	14.7	4136	44 2.6	9175	54.9	15714	29.8	22122	59
2	15.1	1	14.6	1086	19.0	4204	10.2	9274	54 7.5	15829	48.6	22210	58
3	15.1	3	16.6	1122	23.3	4273	17.8	9373	20.1	15944	70 7.4	22297	57
4	15.2	4	18.6	1158	27.7	4342	25.6	9473	32.9	16059	26.4	22383	56
5	15.4	7	20.7	1194	32.1	4412	33.4	9573	45.7	16174	45.4	22467	55
6	34°15.5	10	35°22.8	1231	38°36.5	4483	44°41.2	9674	54°58.6	16289	71° 4.5	22551	54
7	15.7	14	24.9	1269	41.0	4554	49.2	9775	55 11.7	16403	23.7	22633	53
8	16.0	18	27.0	1307	45.6	4626	57.2	9877	24.8	16518	43.0	22715	52
9	16.2	23	29.2	1346	50.2	4698	45 5.3	9979	38.0	16633	72 2.4	22795	51
10	16.5	28	31.4	1385	54.9	4771	13.4	10081	51.4	16748	21.9	22874	50
11	34°16.8	34	35°33.7	1425	38°59.6	4844	45°21.6	10184	56° 4.8	16863	72°41.5	22952	49
12	17.2	40	36.0	1465	39 4.3	4918	29.9	10287	18.3	16977	73 1.2	23028	48
13	17.6	48	38.3	1506	9.1	4993	38.3	10391	32.0	17092	20.9	23104	47
14	18.0	55	40.7	1548	13.9	5068	46.7	10495	45.7	17206	40.8	23178	46
15	18.4	64	43.1	1590	18.8	5143	55.2	10599	59.6	17320	74 0.7	23251	45
16	34°18.9	72	35°45.5	1632	39°23.7	5219	46° 3.8	10704	57°13.5	17434	74°20.7	23323	44
17	19.4	82	47.9	1676	28.7	5296	12.5	10809	27.6	17547	40.8	23393	43
18	19.9	91	50.4	1720	33.8	5373	21.2	10915	41.7	17661	75 1.0	23462	42
19	20.5	102	53.0	1764	38.9	5451	30.0	11021	56.0	17774	21.2	23529	41
20	21.1	113	55.6	1809	44.0	5529	38.9	11127	58 10.3	17887	41.5	23596	40
21	34°21.7	125	35°58.2	1854	39°49.2	5608	46°47.8	11233	58°24.8	18000	76° 1.9	23661	39
22	22.4	137	36 0.8	1900	54.4	5687	56.9	11340	39.4	18113	22.4	23724	38
23	23.1	149	3.5	1947	59.7	5767	47 6.0	11448	54.0	18226	43.0	23787	37
24	23.8	163	6.2	1994	40 5.1	5847	15.2	11555	59 8.8	18338	77 3.6	23847	36
25	24.5	177	9.0	2042	10.5	5928	24.5	11663	23.7	18449	24.3	23906	35
26	34°25.3	191	36°11.8	2090	40°15.9	6009	47°33.8	11772	59°38.7	18561	77°45.1	23964	34
27	26.1	206	14.6	2139	21.4	6091	43.2	11880	53.8	18672	78 5.9	24020	33
28	27.0	222	17.5	2189	27.0	6174	52.8	11989	60 9.0	18783	26.8	24075	32
29	27.8	238	20.4	2239	32.6	6257	48 2.4	12098	24.3	18893	47.8	24129	31
30	28.8	254	23.4	2289	38.2	6340	12.0	12208	39.7	19003	79 8.9	24181	30
31	34°29.7	272	36°26.4	2340	40°43.9	6424	48°21.8	12318	60°55.3	19113	79°30.0	24231	29
32	30.7	289	29.4	2392	49.7	6509	31.6	12428	61 10.9	19222	51.1	24280	28
33	31.7	308	32.4	2445	55.5	6594	41.5	12538	26.6	19331	80 12.3	24326	27
34	32.7	327	35.5	2498	41 1.4	6679	51.5	12649	42.4	19439	33.6	24372	26
35	33.8	346	38.7	2551	7.3	6765	49 1.6	12760	58.4	19547	54.9	24416	25
36	34°34.9	366	36°41.9	2605	41°13.3	6852	49°11.8	12871	62°14.4	19654	81°16.3	24458	24
37	36.0	387	45.1	2659	19.4	6939	22.1	12983	30.6	19761	37.7	24499	23
38	37.1	408	48.3	2714	25.5	7026	32.4	13095	46.9	19867	59.2	24539	22
39	38.3	430	51.6	2770	31.7	7114	42.8	13207	63 3.2	19973	82 20.7	24576	21
40	39.6	452	55.0	2826	37.9	7203	53.3	13319	19.7	20078	42.3	24611	20
41	34°40.8	475	36°58.4	2883	41°44.2	7292	50° 3.9	13431	63°36.3	20183	83° 3.9	24646	19
42	42.1	498	37 1.8	2940	50.5	7382	14.6	13544	53.0	20287	25.6	24678	18
43	43.4	522	5.2	2998	56.9	7472	25.4	13657	64 9.8	20390	47.3	24708	17
44	44.8	547	8.7	3057	42 3.3	7562	36.3	13770	26.7	20493	84 9.0	24738	16
45	46.1	572	12.3	3116	9.9	7653	47.2	13883	43.7	20595	30.8	24765	15
46	34°47.5	598	37°15.9	3175	42°16.4	7745	50°58.2	13997	65° 0.8	20697	84°52.6	24790	14
47	49.0	624	19.5	3235	23.1	7837	51 9.4	14110	18.0	20797	85 14.4	24814	13
48	50.5	651	23.1	3296	29.8	7929	20.6	14224	35.3	20897	36.3	24836	12
49	52.0	679	26.8	3357	36.5	8022	31.9	14338	52.8	20997	58.2	24857	11
50	53.5	706	30.6	3419	43.3	8116	43.3	14452	66 10.3	21095	86 20.1	24876	10
51	34°55.1	735	37°34.4	3481	42°50.2	8210	51°54.8	14566	66°27.9	21192	86°42.0	24892	9
52	56.7	764	38.2	3544	57.2	8304	52 6.4	14681	45.7	21289	87 3.9	24907	8
53	58.4	794	42.1	3607	43 4.2	8399	18.1	14795	67 3.5	21385	25.9	24920	7
54	35 0.0	824	46.0	3671	11.3	8494	29.9	14910	21.4	21481	47.9	24931	6
55	1.7	855	50.0	3736	18.4	8590	41.7	15024	39.5	21575	88 9.9	24942	5
56	35° 3.5	886	37°54.0	3801	43°25.6	8687	52°53.7	15139	67°57.6	21669	88°31.9	24950	4
57	5.3	918	58.1	3867	32.9	8784	53 5.8	15254	68 15.9	21761	53.9	24956	3
58	7.1	951	38 2.2	3933	40.2	8881	17.9	15369	34.2	21853	89 15.9	24961	2
59	8.9	984	6.3	4000	47.6	8978	30.1	15484	52.7	21944	38.0	24963	1
60	10.8	1017	10.5	4068	55.0	9076	42.5	15599	69 11.2	22034	90 0.0	24964	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	34°30·0	0 35°26·0	1011 38°26·1	4041 44°11·1	9009 53°57·8	15463 69°21·9	21808 60
1	30·0	0 27·9	1046 30·4	4108 18·7	9107 54 10·2	15577 40·4	21895 59
2	30·1	1 29·8	1080 34·7	4176 26·3	9205 22·7	15690 59·0	21982 58
3	30·1	3 31·8	1115 39·0	4245 33·9	9304 35·3	15804 70 17·7	22067 57
4	30·2	4 33·8	1150 43·4	4314 41·6	9403 48·0	15918 36·5	22151 56
5	30·4	7 35·9	1187 47·8	4383 49·4	9502 55 0·8	16031 55·4	22234 55
6	34°30·5	10 35°38·0	1224 38°52·3	4453 44°57·3	9602 55°13·7	16144 71°14·3	22316 54
7	30·7	14 40·1	1261 56·8	4524 45 5·3	9702 26·7	16258 33·4	22397 53
8	31·0	18 42·3	1299 39 1·3	4595 13·3	9803 39·8	16371 52·6	22477 52
9	31·2	23 44·5	1337 5·9	4667 21·3	9904 53·0	16485 72 11·8	22556 51
10	31·5	28 46·7	1376 10·6	4739 29·5	10005 56 6·3	16599 31·2	22633 50
11	34°31·8	34 35°48·9	1416 39°15·3	4812 45°37·7	10107 56°19·7	16712 72°50·6	22710 49
12	32·2	40 51·2	1456 20·1	4885 46·0	10209 33·2	16824 73 10·1	22786 48
13	32·6	48 53·5	1496 24·8	4959 54·4	10312 46·8	16937 29·7	22860 47
14	33·0	55 55·9	1538 29·7	5034 46 2·8	10415 57 0·4	17050 49·4	22932 46
15	33·4	63 58·3	1580 34·6	5109 11·3	10518 14·2	17163 74 9·2	23004 45
16	34°33·9	71 36° 0·8	1622 39°39·5	5184 46°19·9	10622 57°28·1	17275 74°29·0	23075 44
17	34·4	81 3·2	1665 44·5	5260 28·5	10726 42·1	17387 49·0	23144 43
18	35·0	91 5·7	1709 49·6	5337 37·3	10830 56·2	17499 75 9·0	23212 42
19	35·5	102 8·3	1753 54·7	5414 46·1	10935 58 10·4	17611 29·1	23279 41
20	36·1	112 10·9	1797 59·8	5492 55·0	11040 24·7	17723 49·2	23344 40
21	34°36·7	124 36°13·5	1843 40° 5·0	5570 47° 3·9	11146 58°39·1	17834 76° 9·5	23407 39
22	37·4	136 16·2	1889 10·3	5648 12·9	11252 53·6	17945 29·8	23470 38
23	38·1	148 18·9	1935 15·6	5727 22·0	11358 59 8·2	18056 50·2	23531 37
24	38·8	162 21·6	1982 20·9	5807 31·2	11464 23·0	18167 77 10·6	23591 36
25	39·6	176 24·4	2029 26·3	5887 40·5	11571 37·8	18277 31·2	23649 35
26	34°40·4	190 36°27·2	2077 40°31·8	5968 47°49·8	11678 59°52·7	18387 77°51·8	23705 34
27	41·2	205 30·0	2126 37·3	6049 59·3	11786 60 7·7	18497 78 12·4	23760 33
28	42·0	220 32·9	2175 42·9	6131 48 8·8	11894 22·9	18605 33·2	23814 32
29	42·9	236 35·8	2225 48·5	6214 18·4	12002 38·1	18714 54·0	23867 31
30	43·8	253 38·8	2275 54·1	6297 28·0	12110 53·4	18823 79 14·8	23918 30
31	34°44·7	270 36°41·8	2326 40°59·8	6380 48°37·8	12219 61° 8·9	18931 79°35·7	23967 29
32	45·7	287 44·8	2377 41 5·6	6464 47·6	12329 24·4	19038 56·7	24015 28
33	46·7	306 47·9	2429 11·5	6548 57·5	12438 40·1	19146 80 17·7	24061 27
34	47·8	324 51·0	2481 17·4	6633 49 7·5	12547 55·8	19253 38·8	24106 26
35	48·8	344 54·1	2534 23·3	6718 17·6	12657 62 11·7	19359 59·9	24149 25
36	34°49·9	364 36°57·3	2588 41°29·3	6804 49°27·7	12767 62°27·7	19465 81°21·1	24191 24
37	51·1	384 37 0·5	2642 35·4	6890 37·9	12877 43·7	19570 42·4	24231 23
38	52·2	405 3·8	2697 41·5	6977 48·3	12988 59·9	19675 82 3·7	24269 22
39	53·4	427 7·1	2752 47·6	7064 58·7	13099 63 16·2	19779 25·0	24306 21
40	54·6	449 10·4	2808 53·9	7152 50 9·2	13210 32·6	19883 46·4	24340 20
41	34°55·9	472 37°13·8	2864 42° 0·2	7240 50°19·8	13321 63°49·1	19986 83° 7·8	24374 19
42	57·2	496 17·3	2921 6·5	7329 30·4	13432 64 5·7	20088 29·2	24406 18
43	58·5	519 20·7	2979 12·9	7418 41·2	13544 22·4	20190 50·7	24436 17
44	59·9	544 24·2	3037 19·4	7508 52·0	13656 39·2	20291 84 12·3	24465 16
45	35 1·2	568 27·8	3096 25·9	7599 51 3·0	13768 56·1	20392 33·8	24492 15
46	35° 2·7	594 37°31·4	3155 42°32·5	7690 51°14·0	13880 65°13·1	20492 84°55·4	24517 14
47	4·1	620 35·0	3214 39·1	7781 25·1	13992 30·2	20591 85 17·1	24540 13
48	5·6	647 38·7	3275 45·8	7873 36·3	14105 47·4	20689 38·7	24562 12
49	7·1	674 42·4	3336 52·6	7965 47·6	14217 66 4·7	20787 86 0·4	24582 11
50	8·7	702 46·2	3397 59·4	8058 59·0	14330 22·2	20884 22·1	24600 10
51	35°10·3	731 37°50·0	3459 43° 6·3	8151 52°10·4	14443 66°39·7	20980 86°43·8	24617 9
52	11·9	759 53·8	3521 13·2	8244 22·0	14556 57·3	21075 87 5·6	24632 8
53	13·5	789 57·7	3584 20·2	8338 33·6	14669 67 15·0	21170 27·3	24644 7
54	15·2	819 38 1·6	3648 27·3	8433 45·4	14782 32·8	21264 49·1	24655 6
55	16·9	850 5·6	3712 34·5	8528 57·2	14896 50·8	21357 88 10·9	24665 5
56	35°18·6	881 38° 9·6	3777 43°41·7	8623 53° 9·2	15009 68° 8·8	21449 88°32·7	24673 4
57	20·4	913 13·7	3842 48·9	8719 21·2	15122 26·9	21540 54·5	24679 3
58	22·2	945 17·8	3908 56·3	8815 33·3	15235 45·1	21630 89 16·4	24684 2
59	24·1	978 21·9	3974 44 3·7	8912 45·5	15349 69 3·5	21719 38·2	24686 1
60	26·0	1011 26·1	4041 11·1	9009 57·8	15463 21·9	21808 90 0·0	24687 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	34°45'0	0 35°41'1	1005 38°41'8	4014 44°27'2	8942 54°13'1	15328 69°32'4	21583 60
1	45'0	0 43'1	1039 46'0	4081 34'7	9039 25'4	15440 50'8	21669 59
2	45'1	1 45'0	1073 50'3	4148 42'3	9136 37'9	15553 70 9'3	21754 58
3	45'1	3 47'0	1108 54'7	4216 49'9	9234 50'5	15665 27'8	21838 57
4	45'2	4 49'0	1143 59'0	4285 57'7	9332 55 3'1	15777 46'5	21921 56
5	45'4	7 51'1	1179 39 3'5	4354 45 5'5	9430 15'9	15889 71 5'3	22002 55
6	34°45'6	10 35°53'2	1216 39° 7'9	4424 45°13'4	9529 55°28'7	16001 71°24'1	22083 54
7	45'8	14 55'3	1253 12'5	4494 21'3	9628 41'7	16113 43'0	22163 53
8	46'0	18 57'5	1291 17'0	4564 29'3	9728 54'7	16225 72 2'0	22242 52
9	46'2	23 59'7	1329 21'7	4635 37'4	9828 56 7'9	16337 21'1	22319 51
10	46'5	28 36 1'9	1368 26'3	4707 45'5	9929 21'1	16449 40'3	22396 50
11	34°46'8	34 36° 4'2	1407 39°31'0	4780 45°53'7	10030 56°34'5	16561 72°59'6	22471 49
12	47'2	40 6'5	1447 35'8	4853 46 2'0	10131 47'9	16672 73 19'0	22545 48
13	47'6	47 8'8	1488 40'6	4926 10'4	10233 57 1'4	16784 38'5	22618 47
14	48'0	54 11'2	1529 45'5	5000 18'8	10335 15'1	16895 58'0	22690 46
15	48'4	63 13'6	1570 50'4	5074 27'3	10437 28'8	17006 74 17'6	22760 45
16	34°48'9	71 36°16'0	1612 39°55'3	5149 46°35'9	10540 57'42'6	17117 74°37'3	22829 44
17	49'4	81 18'5	1655 40 0'3	5224 44'6	10643 56'6	17228 57'0	22897 43
18	50'0	91 21'0	1698 5'4	5300 53'3	10746 58 10'6	17339 75 16'9	22964 42
19	50'5	101 23'6	1742 10'5	5377 47 2'1	10850 24'8	17449 36'8	23029 41
20	51'1	112 26'2	1786 15'6	5454 11'0	10954 39'0	17559 56'8	23093 40
21	34°51'8	123 36°28'8	1831 40°20'8	5531 47°19'9	11059 58°53'3	17669 76°16'9	23156 39
22	52'4	135 31'5	1877 26'1	5609 28'9	11164 59 7'8	17778 37'0	23217 38
23	53'1	148 34'2	1923 31'4	5688 38'0	11269 22'3	17888 57'2	23277 37
24	53'9	161 36'9	1969 36'8	5767 47'2	11374 37'0	17997 77 17'5	23336 36
25	54'6	175 39'7	2016 42'2	5847 56'5	11480 51'7	18106 37'9	23393 35
26	34°55'4	189 36°42'5	2064 40°47'6	5927 48° 5'8	11586 60° 6'6	18214 77°58'3	23449 34
27	56'2	204 45'3	2113 53'1	6007 15'2	11693 21'6	18322 78 18'8	23503 33
28	57'1	219 48'2	2162 58'7	6088 24'7	11799 36'6	18430 39'4	23556 32
29	57'9	235 51'2	2211 41 4'3	6170 34'3	11906 51'8	18537 79 0'0	23608 31
30	58'9	251 54'1	2261 10'0	6252 43'9	12013 61 7'0	18644 20'7	23658 30
31	34°59'8	268 36°57'1	2311 41°15'8	6335 48°53'7	12121 61°22'4	18751 79°41'4	23706 29
32	35 0'8	286 37 0'2	2362 21'5	6418 49 3'5	12229 37'9	18857 80 2'2	23753 28
33	1'8	304 3'3	2414 27'4	6502 13'4	12337 53'5	18962 23'0	23798 27
34	2'8	323 6'4	2466 33'3	6586 23'3	12445 62 9'1	19067 43'9	23842 26
35	3'9	342 9'5	2519 39'2	6671 33'4	12554 24'9	19172 81 4'9	23885 25
36	35° 5'0	362 37°12'7	2572 41°45'2	6756 49°43'5	12663 62°40'8	19276 81°25'9	23926 24
37	6'1	382 16'0	2626 51'3	6841 53'8	12772 56'8	19380 46'9	23965 23
38	7'3	403 19'2	2680 57'4	6927 50 4'1	12881 63 12'9	19483 82 8'0	24002 22
39	8'5	425 22'6	2735 42 3'6	7014 14'5	12991 29'1	19586 29'2	24038 21
40	9'7	447 25'9	2790 9'8	7101 24'9	13101 45'3	19688 50'4	24073 20
41	35°11'0	469 37°29'3	2846 42°16'1	7189 50°35'5	13211 64° 1'7	19789 83°11'6	24106 19
42	12'3	492 32'7	2903 22'5	7277 46'2	13321 18'2	19890 32'8	24137 18
43	13'6	516 36'2	2960 28'9	7366 56'9	13431 34'8	19991 54'1	24166 17
44	15'0	540 39'7	3017 35'3	7455 51 7'7	13542 51'5	20090 84 15'5	24194 16
45	16'3	565 43'3	3075 41'9	7544 18'6	13653 65 8'4	20189 36'8	24221 15
46	35°17'8	591 37°46'9	3134 42°48'5	7634 51°29'6	13764 65°25'3	20288 84°58'3	24245 14
47	19'3	617 50'5	3194 55'1	7725 40'6	13875 42'3	20385 85 19'7	24268 13
48	20'7	643 54'2	3254 43 1'8	7816 51'9	13986 59'4	20482 41'1	24290 12
49	22'2	670 57'9	3314 8'6	7907 52 3'2	14097 66 16'6	20579 86 2'6	24309 11
50	23'8	698 38 1'7	3375 15'4	7999 14'5	14208 33'9	20674 24'1	24327 10
51	35°25'4	726 38° 5'5	3436 43°22'3	8091 52°25'9	14320 66°51'3	20769 86°45'7	24343 9
52	27'0	755 9'4	3498 29'2	8184 37'5	14432 67 8'8	20863 87 7'2	24358 8
53	28'6	784 13'3	3561 36'3	8277 49'1	14544 26'4	20956 28'8	24371 7
54	30'3	814 17'2	3624 43'3	8371 53 0'8	14656 44'1	21048 50'3	24382 6
55	32'0	844 21'2	3688 50'5	8465 12'6	14768 68 1'9	21139 88 11'9	24391 5
56	35°33'8	875 38°25'2	3752 43°57'7	8560 53°24'5	14880 68°19'8	21230 88°33'5	24399 4
57	35'6	907 29'3	3817 44 5'0	8655 36'5	14992 37'8	21320 55'1	24405 3
58	37'4	939 33'4	3882 12'3	8750 48'6	15104 55'9	21408 89 16'8	24409 2
59	39'3	972 37'6	3948 19'7	8846 54 0'8	15216 69 14'1	21496 38'4	24412 1
60	41'1	1005 41'8	4014 27'2	8942 13'1	15328 32'4	21583 90 0'0	24413 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	35° 0'0	0	35°56'3	999	38°57'4	3987	44°43'1	8875	54°28'2	15194	69°42'8	21360	60
1	0'0	0	58'2	1033	39 1'7	4054	50'7	8971	40'6	15305	70 1'1	21445	59
2	0'1	1	36 0'2	1067	6'0	4121	58'3	9067	53'0	15416	19'4	21528	58
3	0'1	3	2'2	1101	10'3	4188	45 5'9	9164	55 5'5	15526	37'9	21611	57
4	0'2	4	4'2	1136	14'7	4256	13'7	9261	18'1	15636	56'4	21692	56
5	0'4	7	6'3	1172	19'1	4325	21 5	9359	30'8	15747	71 15'0	21773	55
6	35° 0'6	10	36° 8'4	1208	39°23'6	4394	45°29'3	9457	55°43'6	15858	71°33'7	21852	54
7	0'8	14	10'5	1245	28'1	4464	37'3	9555	56'5	15969	52'5	21931	53
8	1'0	18	12'7	1282	32'7	4534	45'3	9654	56 9'6	16080	72 11'4	22008	52
9	1'2	23	14'9	1320	37'3	4604	53'4	9753	22'7	16190	30'3	22084	51
10	1'5	28	17'1	1359	42'0	4675	46 1'5	9853	35'8	16300	49'4	22159	50
11	35° 1'9	33	36°19'4	1398	39°46'7	4747	46° 9'7	9953	56°49'1	16411	73° 8'5	22233	49
12	2'2	40	21'7	1438	51'5	4820	18'0	10053	57 2'5	16521	27'7	22306	48
13	2'6	46	24'1	1478	56'3	4893	26'4	10154	16'0	16631	47'0	22378	47
14	3'0	54	26'4	1519	40 1'2	4966	34'8	10255	29'6	16741	74 6'4	22449	46
15	3'5	62	28'9	1560	6'1	5040	43'3	10356	43'3	16850	25'9	22518	45
16	35° 3'9	71	36°31'3	1602	40°11'1	5114	46°51'9	10458	57°57'1	16960	74°45'4	22585	44
17	4'4	80	33'8	1644	16'1	5188	47 0'5	10560	58 10'9	17069	75 5'0	22652	43
18	5'0	90	36'3	1687	21'1	5264	9'2	10662	24'9	17178	24'7	22717	42
19	5'6	100	38'9	1731	26'3	5340	18'0	10765	39'0	17287	44'5	22782	41
20	6'2	111	41'5	1775	31'4	5417	26'9	10868	53'2	17396	76 4'3	22845	40
21	35° 6'8	122	36°44'1	1820	40°36'6	5493	47°35'8	10971	59° 7'5	17504	76°24'2	22907	39
22	7'5	134	46'8	1865	41'9	5570	44'9	11075	21'9	17612	44'2	22967	38
23	8'2	147	49'5	1911	47'2	5648	53'9	11179	36'3	17720	77 4'3	23026	37
24	8'9	160	52'2	1957	52'6	5727	48 3'1	11283	50'9	17827	24'4	23083	36
25	9'6	173	55'0	2004	58'0	5806	12'4	11388	60 5'6	17934	44'6	23139	35
26	35°10'4	187	36°57'8	2051	41° 3'5	5885	48°21'7	11493	60°20'4	18041	78° 4'8	23195	34
27	11'2	203	37 0'7	2099	9'0	5965	31'1	11599	35'3	18148	25'1	23248	33
28	12'1	218	3'6	2148	14'6	6046	40'6	11704	50'3	18255	45'5	23300	32
29	13'0	233	6'5	2197	20'2	6127	50'1	11810	61 5'3	18361	79 5'9	23350	31
30	13'9	249	9'5	2246	25'9	6209	59'8	11916	20'5	18466	26'4	23400	30
31	35°14'8	267	37°12'5	2296	41°31'6	6291	49° 9'5	12023	61°35'8	18571	79°47'0	23447	29
32	15'8	284	15'6	2347	37'4	6373	19'3	12130	51'2	18675	80 7'6	23493	28
33	16'8	302	18'6	2398	43'3	6456	29'2	12237	62 6'7	18779	28'3	23538	27
34	17'9	320	21'8	2450	49'2	6540	39'1	12344	22'3	18883	49'0	23580	26
35	18'9	340	25'0	2502	55'1	6624	49'2	12451	38'0	18986	81 9'8	23622	25
36	35°20'1	359	37°28'2	2555	42° 1'1	6708	49°59'3	12559	62°53'8	19089	81°30'6	23663	24
37	21'2	380	31'4	2609	7'2	6793	50 9'5	12667	63 9'7	19191	51'4	23701	23
38	22'4	400	34'7	2662	13'3	6878	19'9	12775	25'7	19293	82 12'3	23738	22
39	23'6	422	38'0	2717	19'5	6964	30'2	12883	41'8	19394	33'3	23773	21
40	24'8	444	41'4	2772	25'7	7050	40'6	12992	58'0	19495	54'3	23807	20
41	35°26'1	467	37°44'8	2827	42°32'0	7137	50°51'2	13101	64°14'3	19595	83°15'3	23839	19
42	27'4	489	48'2	2884	38'4	7225	51 1'8	13210	30'7	19694	36'4	23870	18
43	28'7	513	51'7	2941	44'8	7313	12'5	13319	47'2	19793	57'5	23899	17
44	30'0	537	55'2	2998	51'3	7401	23'3	13428	65 3'8	19891	84 18'6	23927	16
45	31'4	561	58'8	3055	57'8	7489	34'2	13537	20'5	19988	39'8	23952	15
46	35°32'9	587	38° 2'4	3113	43° 4'4	7578	51°45'2	13647	65°37'3	20085	85° 1'0	23977	14
47	34'3	612	6'0	3173	11'1	7668	56'3	13757	54'2	20182	22'3	23999	13
48	35'8	639	9'7	3233	17'8	7759	52 7'4	13867	66 11'2	20277	43'5	24020	12
49	37'3	666	13'5	3293	24'5	7850	18'6	13977	28'3	20372	86 4'8	24039	11
50	38'9	694	17'3	3353	31'4	7941	30'0	14087	45'5	20466	26'1	24056	10
51	35°40'5	721	38°21'1	3414	43°38'3	8032	52°41'4	14198	67° 2'8	20559	86°47'4	24073	9
52	42'1	750	24'9	3475	45'2	8124	52'9	14308	20'2	20651	87 8'8	24087	8
53	43'8	780	28'8	3537	52'2	8216	53 4'5	14418	37'7	20743	30'2	24100	7
54	45'5	809	32'8	3600	59'3	8309	16'2	14528	55'3	20834	51'5	24110	6
55	47'2	840	36'8	3663	44 6'5	8403	27'9	14640	68 13'0	20924	88 12'9	24120	5
56	35°49'0	870	38°40'8	3727	44°13'7	8497	53°39'8	14750	68°30'8	21013	88°34'3	24128	4
57	50'8	901	44'9	3791	21'0	8591	51'8	14861	48'7	21101	55'7	24133	3
58	52'6	933	49'0	3856	28'3	8685	54 3'8	14972	69 6'6	21189	89 17'2	24137	2
59	54'4	966	53'2	3921	35'7	8780	16'0	15083	24'7	21275	38'6	24140	1
60	56'3	999	57'4	3987	43'1	8875	28'2	15194	42'8	21360	90 0'0	24141	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	35°15-0	0	36°11-5	992	39°13-0	3961	44°59-1	8809	54°43-3	15059	69°53-2	21139	60
1	15-0	0	13-4	1026	17-2	4027	45 6-6	8904	55-6	15169	70 11-3	21222	59
2	15-1	1	15-4	1060	21-5	4093	14-2	8999	55 8-0	15278	29-5	21304	58
3	15-1	2	17-4	1094	25-9	4160	21-9	9095	20-4	15388	47-8	21385	57
4	15-2	4	19-4	1129	30-3	4227	29-6	9191	33-0	15497	71 6-2	21465	56
5	15-4	7	21-5	1165	34-8	4295	37-4	9288	45-7	15607	24-7	21545	55
6	35°15-6	10	36°23-6	1201	39°39-3	4364	45°45-3	9385	55°58-5	15716	71°43-2	21623	54
7	15-8	14	25-9	1237	43-8	4433	53-2	9482	56 11-3	15825	72 1-9	21700	53
8	16-0	18	27-9	1274	48-4	4503	46 1-2	9580	24-3	15934	20-6	21776	52
9	16-2	22	30-1	1312	53-0	4573	9-3	9678	37-3	16043	39-4	21851	51
10	16-5	28	32-4	1351	57-7	4644	17-4	9777	50-5	16152	58-4	21925	50
11	35°16-9	33	36°34-7	1390	40° 2-4	4715	46°25-6	9876	57° 3-7	16261	73°17-4	21998	49
12	17-2	40	37-0	1429	7-2	4787	33-9	9975	17-0	16370	36-4	22069	48
13	17-6	46	39-3	1469	12-0	4859	42-3	10074	30-5	16479	55-6	22139	47
14	18-0	54	41-7	1509	16-9	4932	50-7	10174	44-0	16587	74 14-8	22209	46
15	18-5	62	44-1	1550	21-8	5005	59-2	10275	57-7	16695	34-1	22277	45
16	35°19-0	71	36°46-6	1592	40°26-8	5078	47° 7-8	10376	58°11-4	16803	74°53-5	22344	44
17	19-5	80	49-1	1634	31-8	5153	16-4	10477	25-2	16911	75 12-9	22409	43
18	20-0	89	51-6	1677	36-9	5228	25-1	10578	39-1	17019	32-5	22474	42
19	20-6	100	54-2	1720	42-0	5303	33-9	10680	53-1	17126	52-1	22537	41
20	21-2	110	56-8	1764	47-2	5379	42-8	10782	59 7-3	17233	76 11-7	22599	40
21	35°21-8	122	36°59-4	1808	40°52-4	5455	47°51-7	10884	59°21-5	17340	76°31-5	22659	39
22	22-5	133	37 2-1	1853	57-7	5532	48 0-7	10987	35-8	17447	51-3	22718	38
23	23-2	146	4-8	1898	41 3-0	5609	9-8	11090	50-2	17553	77 11-2	22776	37
24	23-9	159	7-6	1944	8-4	5687	19-0	11193	60 4-7	17659	31-1	22833	36
25	24-7	172	10-4	1991	13-8	5765	28-2	11297	19-3	17765	51-1	22888	35
26	35°25-5	186	37°13-2	2038	41°19-3	5844	48°37-5	11401	60°34-1	17870	78°11-2	22942	34
27	26-3	201	16-1	2086	24-8	5923	46-9	11505	48-9	17975	31-4	22995	33
28	27-1	216	19-0	2134	30-4	6003	56-4	11610	61 3-8	18080	51-6	23045	32
29	28-0	232	21-9	2182	36-0	6084	49 5-9	11714	18-8	18184	79 11-8	23095	31
30	28-9	248	24-9	2232	41-7	6165	15-5	11819	33-9	18288	32-1	23143	30
31	35°29-9	265	37°27-9	2282	41°47-5	6246	49°25-2	11925	61°49-1	18392	79°52-5	23190	29
32	30-9	282	30-9	2332	53-3	6328	35-0	12030	62 4-4	18495	80 13-0	23235	28
33	31-9	300	34-0	2383	59-1	6410	44-9	12136	19-8	18597	33-5	23279	27
34	32-9	319	37-2	2434	42 5-0	6493	54-9	12242	35-4	18699	54-0	23321	26
35	34-0	338	40-4	2486	11-0	6576	50 4-9	12349	51-0	18801	81 14-6	23362	25
36	35°35-1	357	37°43-6	2539	42°17-0	6660	50°15-0	12455	63° 6-7	18903	81°35-2	23402	24
37	36-2	378	46-8	2592	23-1	6744	25-2	12562	22-5	19003	55-9	23439	23
38	37-4	398	50-1	2645	29-2	6829	35-5	12669	38-4	19103	82 16-6	23476	22
39	38-6	419	53-4	2699	35-4	6914	45-8	12776	54-4	19203	37-4	23511	21
40	39-9	441	56-8	2754	41-6	7000	56-2	12883	64 10-5	19302	58-2	23544	20
41	35°41-1	464	38° 0-2	2809	42°47-9	7086	51° 6-8	12991	64°26-7	19401	83°19-0	23575	19
42	42-4	486	3-7	2865	54-3	7172	17-4	13099	43-0	19498	39-9	23606	18
43	43-8	510	7-2	2921	43 0-7	7259	28-1	13207	59-4	19596	84 0-8	23634	17
44	45-1	534	10-7	2978	7-2	7347	38-9	13315	65 16-0	19693	21-8	23661	16
45	46-5	558	14-3	3035	13-7	7435	49-7	13423	32-6	19789	42-8	23687	15
46	35°48-0	583	38°17-9	3093	43°20-3	7523	52° 0-7	13531	65°49-3	19884	85° 3-8	23710	14
47	49-4	609	21-5	3152	27-0	7612	11-7	13640	66 6-1	19979	24-8	23732	13
48	50-9	635	25-2	3211	33-7	7702	22-8	13749	23-0	20073	45-9	23753	12
49	52-5	662	29-0	3270	40-4	7792	34-0	13857	39-9	20166	86 7-0	23772	11
50	54-0	689	32-8	3330	47-3	7882	45-3	13966	57-0	20258	28-1	23789	10
51	35°55-6	717	38°36-6	3391	43°54-2	7972	52°56-7	14075	67°14-2	20350	86°49-2	23805	9
52	57-2	745	40-5	3452	44 1-1	8064	53 8-2	14184	31-5	20441	87 10-4	23819	8
53	58-9	774	44-4	3514	8-2	8155	19-8	14294	48-9	20531	31-5	23831	7
54	36 0-6	804	48-3	3576	15-2	8247	31-4	14403	68 6-4	20621	52-7	23842	6
55	2-3	834	52-3	3639	22-4	8340	43-2	14512	23-9	20709	88 13-9	23851	5
56	36° 4-1	865	38°56-4	3702	44°29-6	8433	53 55-0	14621	68°41-6	20797	88°35-1	23858	4
57	5-9	896	39 0-5	3766	36-9	8526	54 6-9	14731	59-3	20884	56-3	23864	3
58	7-7	927	4-6	3830	44-2	8620	19-0	14840	69 17-2	20970	89 17-6	23868	2
59	9-6	960	8-8	3895	51-6	8714	31-1	14950	35-1	21055	38-8	23871	1
60	11-5	992	13-0	3961	59-1	8809	43-3	15059	53-2	21139	90 0-0	23872	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 II		1 II		2 II		3 II		4 II		5 II		
0	35°30'0	0	36°26'7	986	39°28'6	3934	45°15'0	8741	54°58'2	14926	70° 3'4	20919	60
1	30'0	0	28'6	1019	32'9	4000	22'5	8836	55 10'5	15034	21'4	21001	59
2	30'1	1	30'6	1053	37'2	4066	30'1	8930	22'8	15142	39'5	21082	58
3	30'1	2	32'6	1087	41'5	4132	37'8	9025	35'3	15250	57'7	21161	57
4	30'2	4	34'6	1122	45'9	4198	45'5	9120	47'8	15358	71 15'9	21240	56
5	30'4	7	36'7	1157	50'4	4266	53'3	9216	56 0'4	15466	34'3	21318	55
6	35°30'6	10	36°38'8	1193	39°54'9	4334	46° 1'2	9312	56°13'2	15574	71°52'7	21394	54
7	30'8	13	40'9	1230	59'4	4403	9'1	9409	26'0	15682	72 11'2	21470	53
8	31'0	18	43'1	1267	40 4'0	4472	17'1	9506	38'9	15789	29'8	21546	52
9	31'2	22	45'3	1304	8'7	4541	25'2	9603	51'9	15897	48'4	21620	51
10	31'5	27	47'6	1342	13'4	4611	33'3	9701	57 5'0	16005	73 7'2	21692	50
11	35°31'9	33	36°49'9	1381	40°18'1	4682	46°41'5	9798	57°18'2	16112	73°26'0	21764	49
12	32'2	39	52'2	1420	22'9	4753	49'8	9896	31'5	16219	45'0	21834	48
13	32'6	46	54'5	1460	27'7	4825	58'1	9995	44'9	16326	74 4'0	21903	47
14	33'0	54	56'9	1500	32'6	4897	47 6'6	10094	58'3	16433	23'0	21971	46
15	33'5	62	59'4	1541	37'5	4970	15'0	10194	58 11'9	16540	42'2	22038	45
16	35°34'0	70	37° 1'8	1582	40°42'5	5043	47°23'6	10294	58°25'6	16647	75° 1'4	22104	44
17	34'5	79	4'3	1624	47'5	5117	32'2	10394	39'3	16754	20'7	22168	43
18	35'0	89	6'9	1666	52'6	5191	40'9	10494	53'2	16860	40'1	22232	42
19	35'6	99	9'5	1709	57'7	5266	49'7	10595	59 7'2	16965	59'6	22294	41
20	36'2	109	12'1	1752	41 2'9	5341	58'6	10696	21'2	17071	76 19'1	22354	40
21	35°36'8	121	37°14'7	1796	41° 8'1	5416	48° 7'5	10797	59°35'4	17177	76°38'6	22414	39
22	37'5	132	17'4	1841	13'4	5492	16'5	10899	49'6	17282	58'3	22473	38
23	38'2	145	20'1	1886	18'7	5570	25'6	11001	60 4'0	17387	77 18'0	22529	37
24	38'9	158	22'9	1932	24'1	5647	34'7	11103	18'4	17491	37'8	22585	36
25	39'7	171	25'7	1978	29'5	5725	44'0	11206	33'0	17596	57'7	22639	35
26	35°40'5	185	37°28'5	2024	41°35'0	5803	48°53'3	11309	60°47'6	17700	78°17'6	22691	34
27	41'3	200	31'4	2072	40'6	5881	49 2'7	11412	61 2'4	17803	37'5	22743	33
28	42'2	215	34'3	2120	46'2	5960	12'1	11515	17'2	17906	57'6	22793	32
29	43'1	230	37'2	2168	51'8	6040	21'6	11619	32'1	18009	79 17'7	22842	31
30	44'0	247	40'2	2217	57'5	6120	31'2	11723	47'2	18112	37'8	22890	30
31	35°44'9	263	37°43'2	2266	42° 3'2	6201	49°40'9	11827	62° 2'3	18214	79°58'0	22935	29
32	45'9	280	46'3	2317	9'0	6282	50'7	11931	17'5	18315	80 18'3	22979	28
33	46'9	299	49'4	2367	14'9	6364	50 0'6	12036	32'9	18416	38'6	23023	27
34	48'0	317	52'6	2418	20'8	6447	10'5	12141	48'3	18517	58'9	23064	26
35	49'1	336	55'7	2470	26'8	6529	20'5	12246	63 3'8	18618	81 19'3	23105	25
36	35°50'2	355	37°59'0	2522	42°32'8	6612	50°30'6	12351	63°19'5	18717	81°39'8	23143	24
37	51'3	375	38 2'2	2574	38'9	6695	40'8	12457	35'2	18816	82 0'3	23180	23
38	52'5	395	5'5	2628	45'0	6779	51'0	12563	51'0	18915	20'8	23216	22
39	53'7	417	8'8	2682	51'2	6864	51 1'4	12669	64 6'9	19013	41'4	23250	21
40	54'9	438	12'2	2736	57'5	6949	11'8	12775	23'0	19111	83 2'0	23282	20
41	35°56'2	461	38°15'6	2791	43° 3'8	7034	51°22'3	12881	64°39'1	19208	83°22'7	23314	19
42	57'6	483	19'1	2846	10'1	7120	32'9	12988	55'3	19305	43'4	23344	18
43	58'9	506	22'6	2902	16'5	7206	43'5	13095	65 11'6	19400	84 4'1	23372	17
44	36 0'2	530	26'2	2958	23'0	7293	54'3	13201	28'0	19495	24'9	23398	16
45	1'6	555	29'7	3015	29'6	7380	52 5'1	13308	44'5	19590	45'7	23423	15
46	36° 3'1	580	38°33'4	3073	43°36'2	7468	52°16'1	13416	66° 1'1	19685	85° 6'5	23446	14
47	4'5	605	37'0	3131	42'8	7556	27'1	13523	17'8	19777	27'3	23468	13
48	6'0	632	40'7	3190	49'5	7645	38'2	13630	34'6	19869	48'2	23488	12
49	7'6	658	44'5	3249	56'3	7734	49'4	13737	51'5	19961	86 9'1	23507	11
50	9'1	685	48'3	3309	44 3'2	7823	53 0'6	13845	67 8'5	20052	30'0	23523	10
51	36°10'7	712	38°52'1	3369	44°10'1	7913	53°12'0	13953	67°25'5	20143	86°50'9	23539	9
52	12'4	740	56'0	3429	17'0	8003	23'4	14061	42'7	20232	87 11'9	23553	8
53	14'0	769	59'9	3490	24'0	8094	35'0	14169	68 0'0	20321	32'9	23565	7
54	15'7	799	39 3'9	3552	31'1	8185	46'6	14277	17'3	20409	53'9	23575	6
55	17'5	829	7'9	3614	38'3	8277	58'3	14385	34'8	20496	88 14'9	23584	5
56	36°19'2	859	39°11'9	3677	44°45'5	8369	54°10'1	14493	68°52'3	20582	88°35'9	23592	4
57	21'0	890	16'0	3740	52'8	8462	22'0	14601	69 9'9	20668	56'9	23597	3
58	22'9	922	20'2	3804	45 0'1	8555	34'0	14709	27'7	20752	89 17'9	23601	2
59	24'8	954	24'4	3868	7'5	8648	46'1	14817	45'5	20836	39'0	23604	1
60	26'7	986	28'6	3934	15'0	8741	58'2	14926	70 3'4	20919	90 0'0	23605	0
	11 II	10 II	9 II	8 II	7 II	6 II	5 II	4 II	3 II	2 II	1 II	m	

m	0 II	1 II	2 II	3 II	4 II	5 II							
0	35°45.0	0	36°41.8	980	39°44.1	3907	45°30.8	8675	55°13.1	14792	70°13.5	20701	60
1	45.0	0	43.8	1013	48.4	3972	38.3	8768	25.3	14899	31.4	20781	59
2	45.1	1	45.7	1046	52.7	4037	45.9	8861	37.6	15005	49.3	20861	58
3	45.1	2	47.8	1080	57.1	4103	53.6	8955	50.0	15112	71 7.4	20939	57
4	45.2	4	49.8	1115	40 1.5	4170	46 1.3	9050	56 2.5	15219	25.5	21017	56
5	45.4	7	51.9	1150	6.0	4237	9.1	9145	15.1	15325	43.7	21093	55
6	35°45.6	10	36°54.0	1185	40°10.5	4304	46°17.0	9240	56°27.8	15432	72° 2.0	21169	54
7	45.8	13	56.1	1221	15.0	4372	24.9	9335	40.6	15539	20.4	21244	53
8	46.0	18	58.3	1258	19.6	4441	32.9	9431	53.4	15645	38.8	21317	52
9	46.3	22	37 0.5	1296	24.3	4510	41.0	9528	57 6.4	15751	57.4	21390	51
10	46.6	27	2.8	1334	29.0	4580	49.1	9624	19.4	15858	73 16.0	21461	50
11	35°46.9	33	37° 5.1	1372	40°33.7	4650	46°57.3	9721	57°32.6	15964	73°34.7	21531	49
12	47.2	39	7.4	1411	38.5	4720	47 5.6	9819	45.8	16070	53.4	21601	48
13	47.6	46	9.8	1450	43.4	4791	13.9	9916	59.1	16175	74 12.3	21669	47
14	48.0	53	12.2	1490	48.3	4863	22.3	10014	58 12.5	16281	31.2	21736	46
15	48.5	62	14.6	1530	53.2	4935	30.8	10113	26.1	16386	50.2	21801	45
16	35°49.0	70	37°17.1	1571	40°58.2	5008	47°39.4	10212	58°39.7	16491	75° 9.3	21866	44
17	49.5	79	19.6	1613	41 3.2	5081	48.0	10311	53.4	16596	28.5	21929	43
18	50.0	88	22.1	1655	8.3	5155	56.7	10410	59 7.2	16701	47.7	21991	42
19	50.6	98	24.7	1698	13.4	5229	48 5.5	10510	21.1	16806	76 6.9	22052	41
20	51.2	109	27.3	1741	18.6	5303	14.3	10610	35.1	16910	26.3	22112	40
21	35°51.9	120	37°30.0	1784	41°23.8	5378	48°23.2	10710	59°49.2	17014	76°45.7	22171	39
22	52.5	132	32.7	1829	29.1	5454	32.2	10811	60 3.4	17118	77 5.2	22228	38
23	53.2	144	35.4	1874	34.4	5530	41.3	10912	17.7	17221	24.8	22284	37
24	54.0	157	38.2	1919	39.8	5607	50.4	11013	32.0	17324	44.4	22338	36
25	54.7	170	41.0	1965	45.3	5684	59.6	11114	46.5	17427	78 4.1	22391	35
26	35°55.5	184	37°43.8	2011	41°50.8	5761	49° 8.9	11216	61° 1.1	17530	78°23.8	22443	34
27	56.3	199	46.7	2058	56.3	5839	18.3	11318	15.7	17632	43.6	22494	33
28	57.2	214	49.6	2106	42 1.9	5918	27.8	11421	30.5	17734	79 3.5	22543	32
29	58.1	229	52.6	2154	7.6	5997	37.3	11523	45.4	17835	23.4	22591	31
30	59.0	245	55.6	2203	13.3	6077	46.9	11626	62 0.3	17936	43.4	22638	30
31	36° 0.0	262	37°58.6	2252	42°19.0	6157	49°56.6	11729	62°15.4	18037	80° 3.4	22683	29
32	1.0	279	38 1.7	2301	24.8	6237	50 6.3	11832	30.5	18137	23.5	22727	28
33	2.0	297	4.8	2351	30.7	6318	16.1	11936	45.8	18237	43.6	22769	27
34	3.0	315	7.9	2402	36.6	6399	26.1	12040	63 1.1	18336	81 3.8	22810	26
35	4.1	334	11.1	2454	42.6	6481	36.1	12144	16.6	18435	24.1	22849	25
36	36° 5.2	353	38°14.3	2506	42°48.6	6564	50°46.1	12248	63°32.1	18533	81°44.3	22887	24
37	6.4	373	17.6	2558	54.7	6647	56.3	12352	47.8	18631	82 4.6	22924	23
38	7.6	393	20.9	2610	43 0.8	6730	51 6.5	12457	64 3.5	18728	25.0	22959	22
39	8.8	414	24.3	2664	7.0	6813	16.8	12562	19.3	18825	45.4	22992	21
40	10.0	436	27.7	2718	13.3	6897	27.2	12667	35.3	18921	83 5.8	23024	20
41	36°11.3	458	38°31.1	2772	43°19.6	6982	51°37.7	12772	64°51.3	19016	83°26.3	23055	19
42	12.6	480	34.5	2827	25.9	7067	48.3	12877	65 7.4	19111	46.8	23084	18
43	13.9	503	38.0	2883	32.4	7153	59.0	12983	23.6	19206	84 7.3	23111	17
44	15.3	527	41.6	2939	38.9	7239	52 9.7	13089	39.9	19299	27.9	23137	16
45	16.7	551	45.2	2995	45.4	7325	20.5	13194	56.3	19392	48.5	23162	15
46	36°18.2	576	38°48.8	3052	43°52.0	7412	52°31.4	13300	66°12.8	19485	85° 9.2	23185	14
47	19.6	601	52.5	3110	58.7	7500	42.4	13406	29.4	19577	29.8	23206	13
48	21.1	627	56.2	3168	44 5.4	7588	53.4	13512	46.1	19668	50.5	23226	12
49	22.7	654	39 0.0	3227	12.2	7676	53 4.6	13619	67 2.9	19758	86 11.2	23244	11
50	24.2	681	3.8	3286	19.0	7764	15.8	13725	19.8	19848	32.0	23261	10
51	36°25.8	708	39° 7.6	3346	44°25.9	7853	53°27.2	13832	67°36.7	19937	86°52.7	23276	9
52	27.5	736	11.5	3406	32.9	7943	38.6	13938	53.8	20025	87 13.5	23289	8
53	29.2	765	15.4	3467	39.9	8033	50.1	14045	68 10.9	20112	34.3	23301	7
54	30.9	794	19.4	3528	47.0	8123	54 1.7	14151	28.2	20199	55.1	23311	6
55	32.6	823	23.4	3590	54.1	8214	13.4	14258	45.5	20285	88 15.9	23320	5
56	36°34.4	854	39°27.5	3652	45° 1.3	8305	54°25.1	14365	69° 2.9	20370	88°36.7	23327	4
57	36.2	884	31.6	3715	8.6	8397	37.0	14472	20.4	20454	57.5	23333	3
58	38.0	916	35.7	3779	15.9	8489	48.9	14579	38.0	20537	89 18.3	23337	2
59	39.9	948	39.9	3843	23.3	8582	55 1.0	14685	55.7	20619	39.2	23339	1
60	41.8	980	44.1	3907	30.8	8675	13.1	14792	70 13.5	20701	90 0.0	23340	0
	11 II	10 II	9 II	8 II	7 II	6 II	m						

m	0 II	1 II	2 II	3 II	4 II	5 II	
0	36° 0-0	0 36°57-0	974 39°59-7	3880 45°46-6	8608 55°27-9	14660 70°23-5	20484 60
1	0-0	0 58-9	1007 40 4-0	3945 54-1	8700 40-1	14765 41-3	20563 59
2	0-1	1 37 0-9	1040 8-3	4010 46 1-7	8793 52-3	14871 59-1	20641 58
3	0-1	2 2-9	1073 12-7	4075 9-4	8886 56 4-7	14976 71 17-0	20719 57
4	0-2	4 5-0	1107 17-1	4141 17-1	8980 17-1	15081 35-0	20795 56
5	0-4	7 7-1	1142 21-6	4207 24-9	9074 29-7	15186 53-1	20870 55
6	36° 0-6	10 37° 9-2	1178 40°26-1	4274 46°32-8	9168 56°42-3	15292 72°11-2	20945 54
7	0-8	13 11-3	1214 30-6	4342 40-7	9262 55-0	15397 29-5	21018 53
8	1-0	17 13-5	1250 35-2	4410 48-7	9357 57 7-8	15502 47-8	21090 52
9	1-3	22 15-7	1287 39-9	4478 56-7	9452 20-7	15606 73 6-2	21162 51
10	1-6	27 18-0	1325 44-6	4547 47 4-9	9548 33-7	15710 24-7	21232 50
11	36° 1-9	33 37°20-3	1363 40°49-3	4617 47°13-1	9644 57°46-8	15815 73°43-2	21301 49
12	2-2	39 22-6	1401 54-1	4687 21-3	9741 58 0-0	15920 74 1-8	21369 48
13	2-6	45 25-0	1441 59-0	4758 29-7	9838 13-3	16025 20-5	21436 47
14	3-1	53 27-4	1481 41 3-9	4829 38-1	9935 26-7	16129 39-3	21501 46
15	3-5	61 29-9	1521 8-8	4901 46-6	10032 40-1	16233 58-2	21566 45
16	36° 4-0	69 37°32-3	1561 41°13-8	4973 47°55-1	10130 58°53-7	16337 75°17-1	21629 44
17	4-5	78 34-8	1602 18-9	5045 48 3-7	10228 59 7-3	16440 36-1	21692 43
18	5-0	87 37-4	1644 23-9	5118 12-4	10326 21-1	16544 55-2	21754 42
19	5-6	97 40-0	1686 29-1	5192 21-2	10425 34-9	16647 76 14-3	21813 41
20	6-2	109 42-6	1730 34-3	5266 30-0	10524 48-8	16749 33-5	21872 40
21	36° 6-9	120 37°45-3	1774 41°39-5	5340 48°38-9	10623 60° 2-9	16852 76°52-8	21929 39
22	7-6	131 47-9	1818 44-8	5415 47-9	10723 17-0	16954 77 12-1	21985 38
23	8-3	143 50-7	1862 50-1	5490 57-0	10823 31-2	17057 31-5	22040 37
24	9-0	156 53-5	1907 55-5	5566 49 6-1	10923 45-5	17159 50-9	22094 36
25	9-8	169 56-3	1952 42 1-0	5643 15-3	11023 59-9	17260 78 10-4	22146 35
26	36°10-6	183 37°59-1	1998 42° 6-5	5720 49°24-6	11123 61°14-4	17361 78°30-0	22197 34
27	11-4	197 38 2-0	2045 12-0	5797 33-9	11225 29-0	17461 49-7	22247 33
28	12-2	213 4-9	2092 17-6	5875 43-4	11326 43-7	17561 79 9-4	22296 32
29	13-1	228 7-9	2140 23-3	5953 52-9	11428 58-5	17661 29-1	22343 31
30	14-1	244 10-9	2188 29-0	6032 50 2-4	11529 62 13-4	17761 48-9	22388 30
31	36°15-0	260 38°13-9	2237 42°34-8	6111 50°12-1	11631 62°28-4	17861 80° 8-8	22433 29
32	16-0	277 17-0	2286 40-6	6191 21-8	11734 43-5	17959 28-7	22476 28
33	17-0	295 20-1	2336 46-4	6272 31-7	11836 58-6	18057 48-6	22517 27
34	18-1	313 23-3	2386 52-3	6353 41-6	11939 63 13-9	18155 81 8-6	22557 26
35	19-2	331 26-5	2437 58-3	6434 51-5	12042 29-3	18252 28-7	22596 25
36	36°20-3	350 38°29-7	2488 43° 4-4	6515 51° 1-6	12145 63°44-7	18349 81°48-8	22633 24
37	21-4	370 33-0	2540 10-4	6597 11-7	12248 64 0-3	18446 82 8-9	22669 23
38	22-6	391 36-3	2593 16-6	6680 21-9	12351 15-9	18542 29-1	22703 22
39	23-8	412 39-6	2646 22-8	6763 32-2	12455 31-6	18637 49-3	22736 21
40	25-1	433 43-0	2700 29-0	6847 42-6	12559 47-5	18732 83 9-6	22768 20
41	36°26-4	455 38°46-5	2754 43°35-3	6931 51°53-1	12663 65° 3-4	18826 83°29-9	22798 19
42	27-7	477 50-0	2808 41-7	7015 52 3-6	12767 19-4	18919 50-2	22826 18
43	29-0	500 53-5	2863 48-1	7100 14-2	12871 35-5	19012 84 10-5	22853 17
44	30-4	524 57-0	2918 54-6	7185 24-9	12975 51-8	19105 30-9	22879 16
45	31-8	548 39 0-6	2975 44 1-2	7271 35-7	13080 66 8-1	19196 51-4	22903 15
46	36°33-3	573 39° 4-3	3032 44° 7-8	7357 52°46-6	13185 66°24-5	19287 85°11-8	22925 14
47	34-7	598 7-9	3089 14-5	7443 57-6	13290 40-9	19378 32-3	22946 13
48	36-2	623 11-7	3147 21-2	7530 53 8-6	13395 57-5	19468 52-8	22966 12
49	37-8	649 15-4	3205 28-0	7618 19-7	13500 67 14-2	19557 86 13-3	22984 11
50	39-4	676 19-2	3264 34-8	7706 31-0	13605 31-0	19645 33-9	23000 10
51	36°41-0	703 39°23-1	3323 44°41-7	7794 53°42-3	13710 67°47-8	19733 86°54-5	23015 9
52	42-6	731 27-0	3383 48-7	7883 53-6	13816 68 4-8	19820 87 15-0	23028 8
53	44-3	759 30-9	3443 55-7	7972 54 5-1	13921 21-8	19906 35-6	23040 7
54	46-0	788 34-9	3504 45 2-8	8062 16-7	14027 38-9	19991 56-2	23050 6
55	47-7	818 38-9	3565 9-9	8152 28-3	14132 56-1	20075 88 16-8	23058 5
56	36°49-5	849 39°43-0	3627 45°17-1	8242 54°40-1	14238 69°13-4	20158 88°37-4	23066 4
57	51-3	879 47-1	3689 24-4	8333 51-9	14343 30-8	20241 58-1	23071 3
58	53-2	910 51-2	3752 31-7	8424 55 3-8	14448 48-3	20323 89 18-7	23075 2
59	55-1	942 55-4	3816 39-1	8516 15-8	14554 70 5-9	20404 39-3	23077 1
60	57-0	974 59-7	3880 46-6	8608 27-9	14660 23-5	20484 90 0-0	23078 0
	11 II	10 II	9 II	8 II	7 II	6 II	m

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	36°15.0	0	37°12.1	967	40°15.2	3853	46° 2.3	8541	55°42.6	14527	70°33.5	20269	60
1	15.0	0	14.1	1000	19.5	3917	9.9	8632	54.7	14631	51.1	20347	59
2	15.1	1	16.1	1033	23.8	3981	17.5	8724	56 6.9	14735	71 8.8	20424	58
3	15.1	2	18.1	1066	28.2	4047	25.1	8816	19.2	14839	26.5	20500	57
4	15.2	4	20.1	1100	32.6	4112	32.8	8909	31.6	14943	44.4	20575	56
5	15.4	7	22.2	1135	37.1	4178	40.6	9002	44.1	15047	72 2.4	20649	55
6	36°15.6	10	37°24.4	1170	40°41.6	4245	46°48.5	9095	56°56.7	15151	72°20.4	20722	54
7	15.8	13	26.5	1206	46.2	4312	56.4	9189	57 9.4	15255	38.5	20794	53
8	16.0	17	28.7	1242	50.8	4379	47 4.4	9283	22.2	15358	56.6	20865	52
9	16.3	22	30.9	1279	55.5	4447	12.5	9377	35.0	15462	73 14.9	20935	51
10	16.6	27	33.2	1316	41 0.2	4516	20.6	9472	48.0	15565	33.2	21004	50
11	36°16.9	33	37°35.5	1354	41° 4.9	4585	47°28.8	9567	58° 1.0	15669	73°51.6	21073	49
12	17.2	39	37.9	1392	9.7	4654	37.0	9663	14.1	15772	74 10.1	21139	48
13	17.6	45	40.2	1431	14.6	4724	45.3	9759	27.4	15875	28.7	21205	47
14	18.1	52	42.6	1471	19.5	4795	53.7	9855	40.7	15978	47.3	21270	46
15	18.5	61	45.1	1511	24.4	4866	48 2.2	9951	54.1	16080	75 6.0	21333	45
16	36°19.0	68	37°47.6	1551	41°29.4	4937	48°10.7	10048	59° 7.6	16182	75°24.8	21396	44
17	19.5	78	50.1	1592	34.5	5009	19.4	10145	21.2	16285	43.6	21457	43
18	20.1	87	52.6	1634	39.6	5081	28.0	10242	34.9	16387	76 2.5	21517	42
19	20.6	97	55.2	1676	44.7	5154	36.8	10340	48.6	16489	21.5	21576	41
20	21.3	108	57.9	1718	49.9	5228	45.6	10438	60 2.5	16590	40.6	21634	40
21	36°21.9	119	38° 0.5	1761	41°55.2	5302	48°54.5	10536	60°16.5	16691	76°59.7	21690	39
22	22.6	130	3.2	1805	42 0.5	5376	49 3.5	10635	30.5	16792	77 18.9	21745	38
23	23.3	142	6.0	1849	5.8	5451	12.5	10734	44.7	16893	38.1	21799	37
24	24.0	155	8.8	1894	11.2	5526	21.7	10833	58.9	16993	57.4	21852	36
25	24.8	168	11.6	1939	16.7	5602	30.9	10932	61 13.3	17093	78 16.7	21903	35
26	36°25.6	182	38°14.4	1985	42°22.2	5678	49°40.1	11032	61°27.7	17193	78°36.2	21954	34
27	26.4	196	17.3	2031	27.7	5755	49.5	11132	42.2	17292	55.6	22002	33
28	27.3	211	20.2	2078	33.3	5833	58.9	11232	56.8	17391	79 15.1	22050	32
29	28.2	226	23.2	2126	39.0	5910	50 8.4	11332	62 11.5	17489	34.7	22096	31
30	29.1	242	26.2	2174	44.7	5988	17.9	11433	26.3	17587	54.4	22141	30
31	36°30.1	258	38°29.3	2222	42°50.4	6067	50°27.6	11534	62°41.2	17685	80°14.1	22185	29
32	31.1	275	32.3	2271	56.3	6146	37.3	11635	56.2	17783	33.8	22227	28
33	32.1	293	35.5	2320	43 2.2	6226	47.1	11736	63 11.3	17880	53.6	22268	27
34	33.1	311	38.6	2370	8.1	6306	57.0	11838	26.5	17976	81 13.4	22307	26
35	34.2	329	41.8	2421	14.0	6386	51 7.0	11940	41.8	18072	33.3	22345	25
36	36°35.3	348	38°45.1	2472	43°20.1	6467	51°17.0	12042	63°57.2	18167	81°53.2	22382	24
37	36.5	368	48.4	2523	26.2	6549	27.1	12144	64 12.6	18262	82 13.1	22417	23
38	37.7	388	51.7	2575	32.3	6631	37.3	12246	28.2	18356	33.2	22451	22
39	38.9	409	55.0	2628	38.5	6713	47.6	12348	43.8	18450	53.2	22483	21
40	40.2	430	58.4	2681	44.8	6796	57.9	12451	59.6	18544	83 13.3	22514	20
41	36°41.4	452	39° 1.9	2735	43°51.1	6879	52° 8.4	12554	65°15.4	18636	83°33.4	22543	19
42	42.8	474	5.4	2789	57.5	6963	18.9	12657	31.3	18728	53.5	22572	18
43	44.1	497	8.9	2844	44 3.9	7047	29.5	12760	47.4	18820	84 13.7	22598	17
44	45.5	520	12.4	2899	10.4	7131	40.2	12863	66 3.5	18911	33.9	22623	16
45	46.9	544	16.0	2955	16.9	7216	50.9	12967	19.7	19001	54.2	22647	15
46	36°48.3	569	39°19.7	3011	44°23.5	7301	53° 1.8	13070	66°36.0	19091	85°14.4	22669	14
47	49.8	594	23.4	3068	30.2	7387	12.7	13173	52.4	19180	34.7	22689	13
48	51.3	619	27.1	3125	36.9	7473	23.7	13277	67 8.8	19268	55.0	22708	12
49	52.9	645	30.9	3183	43.7	7560	34.8	13381	25.4	19356	86 15.4	22726	11
50	54.5	672	34.7	3241	50.5	7647	46.0	13485	42.0	19443	35.7	22742	10
51	36°56.1	699	39°38.5	3300	44°57.4	7735	53°57.3	13589	67°58.8	19529	86°56.1	22756	9
52	57.7	727	42.4	3360	45 4.4	7823	54 8.6	13693	68 15.6	19614	87 16.5	22769	8
53	59.4	755	46.4	3420	11.4	7911	20.1	13797	32.5	19699	36.9	22781	7
54	37 1.1	784	50.4	3480	18.5	8000	31.6	13901	49.6	19783	57.3	22791	6
55	2.9	813	54.4	3541	25.7	8089	43.2	14006	69 6.7	19866	88 17.8	22799	5
56	37° 4.7	843	39°58.5	3602	45°32.9	8178	54°54.9	14110	69°23.9	19948	88°38.2	22806	4
57	6.5	873	40 2.6	3664	40.2	8268	55 6.7	14214	41.1	20030	58.6	22812	3
58	8.3	904	6.7	3727	47.5	8358	18.5	14318	58.5	20110	89 19.1	22816	2
59	10.2	935	10.9	3790	54.9	8449	30.5	14422	70 15.9	20190	39.5	22818	1
60	12.1	967	15.2	3853	46 2.3	8541	42.6	14527	33.5	20269	90 0.0	22819	0
	11 H	10 H		9 H		8 H		7 H		6 H		m	

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	36°30'0	0	37°27'3	961	40°30'7	3826	46°18'0	8473	55°57'2	14394	70°43'3	20055	60
1	30'0	0	29'2	993	35'0	3890	25'6	8564	56'9'3	14497	71'0'8	20132	59
2	30'1	1	31'2	1026	39'3	3954	33'2	8656	21'4	14600	18'3	20207	58
3	30'1	2	33'2	1059	43'7	4019	40'8	8747	33'7	14703	36'0	20282	57
4	30'3	4	35'3	1093	48'2	4084	48'5	8838	46'1	14805	53'7	20356	56
5	30'4	7	37'4	1128	52'7	4149	56'3	8930	58'5	14908	72'11'5	20429	55
6	36°30'6	10	37°39'5	1163	40°57'2	4215	47°4'2	9023	57°11'1	15011	72°29'4	20501	54
7	30'8	13	41'7	1198	41'1'8	4281	12'1	9116	23'7	15113	47'4	20572	53
8	31'0	17	43'9	1234	6'4	4348	20'1	9209	36'4	15216	73'5'4	20643	52
9	31'3	21	46'1	1270	11'0	4416	28'1	9302	49'2	15318	23'5	20711	51
10	31'6	26	48'4	1307	15'8	4484	36'2	9396	58'2'1	15420	41'7	20778	50
11	36°31'9	32	37°50'7	1344	41°20'5	4552	47°44'4	9490	58°15'1	15522	74°0'0	20845	49
12	32'3	38	53'1	1383	25'3	4621	52'7	9585	28'2	15624	18'4	20911	48
13	32'7	45	55'5	1422	30'2	4690	48'1'0	9680	41'3	15725	36'8	20976	47
14	33'1	52	57'9	1461	35'1	4760	9'4	9775	54'6	15827	55'3	21040	46
15	33'5	60	38'0'3	1501	40'0	4830	17'8	9870	59'8'0	15928	75'13'8	21102	45
16	36°34'0	68	38°2'8	1541	41°45'0	4901	48°26'4	9966	59°21'4	16029	75°32'4	21163	44
17	34'5	77	5'3	1581	50'1	4973	35'0	10062	34'9	16130	51'1	21224	43
18	35'1	87	7'9	1622	55'2	5045	43'6	10159	48'5	16231	76'9'9	21284	42
19	35'7	96	10'5	1664	42'0'3	5117	52'4	10256	60'2'3	16331	28'7	21342	41
20	36'3	107	13'1	1707	5'5	5190	49'1'2	10353	16'1	16431	47'6	21398	40
21	36°36'9	118	38°15'8	1750	42°10'8	5263	49°10'1	10450	60°30'0	16531	77°6'6	21453	39
22	37'6	129	18'5	1793	16'1	5337	19'0	10547	44'0	16630	25'6	21507	38
23	38'3	141	21'2	1837	21'4	5411	28'1	10645	58'0	16729	44'6	21560	37
24	39'0	154	24'0	1881	26'8	5486	37'2	10743	61'12'2	16828	78'3'8	21612	36
25	39'8	167	26'8	1926	32'3	5561	46'4	10841	26'5	16927	23'0	21663	35
26	36°40'6	180	38°29'7	1971	42°37'8	5637	49°55'6	10940	61°40'8	17025	78°42'2	21712	34
27	41'4	194	32'6	2017	43'4	5713	50'4'9	11039	55'3	17123	79'1'5	21760	33
28	42'3	209	35'5	2064	49'0	5789	14'3	11138	62'9'8	17221	20'9	21806	32
29	43'2	224	38'5	2111	54'6	5866	23'8	11237	24'5	17318	40'3	21852	31
30	44'1	241	41'5	2159	43'0'3	5944	33'4	11337	39'2	17415	59'8	21897	30
31	36°45'1	257	38°44'6	2207	43°6'1	6022	50°43'0	11437	62°54'0	17511	80°19'3	21939	29
32	46'1	273	47'7	2255	11'9	6100	52'7	11537	63'8'9	17607	38'9	21980	28
33	47'1	291	50'8	2304	17'8	6179	51'2'5	11637	24'0	17702	58'5	22020	27
34	48'2	309	54'0	2354	23'7	6258	12'3	11737	39'1	17797	81'18'1	22059	26
35	49'3	327	57'2	2404	29'7	6338	22'3	11838	54'3	17892	37'8	22096	25
36	36°50'4	346	39°0'4	2455	43°35'8	6419	51°32'3	11939	64°9'5	17986	81°57'6	22133	24
37	51'5	366	3'7	2506	41'8	6500	42'4	12040	24'9	18080	82'17'3	22167	23
38	52'7	386	7'0	2557	48'0	6581	52'6	12141	40'4	18173	37'2	22200	22
39	54'0	406	10'4	2610	54'2	6663	52'2'8	12242	55'9	18265	57'0	22232	21
40	55'2	427	13'8	2663	44'0'5	6745	13'1	12344	65'11'6	18356	83'16'9	22263	20
41	36°56'5	449	39°17'3	2716	44°6'8	6827	52°23'6	12445	65°27'3	18448	83°36'8	22292	19
42	57'8	471	20'7	2770	13'2	6910	34'1	12547	43'2	18539	56'8	22318	18
43	59'2	494	24'2	2824	19'6	6993	44'6	12649	59'1	18629	84'16'9	22344	17
44	37'0'6	517	27'8	2879	26'1	7077	55'3	12751	66'15'1	18719	36'9	22369	16
45	2'0	541	31'4	2934	32'6	7161	53'6'0	12853	31'2	18808	56'9	22392	15
46	37°3'4	565	39°35'1	2990	44°39'2	7246	53°16'8	12956	66°47'4	18896	85°17'0	22413	14
47	4'9	590	38'8	3046	45'9	7331	27'7	13058	67'3'7	18983	37'1	22434	13
48	6'4	616	42'5	3103	52'6	7416	38'7	13161	20'0	19070	57'3	22452	12
49	8'0	641	46'3	3161	59'4	7502	49'8	13263	36'5	19157	86'17'4	22470	11
50	9'6	667	50'1	3219	45'6'2	7589	54'1'0	13366	53'0	19243	37'6	22486	10
51	37°11'2	694	39°54'0	3277	45°13'1	7676	54°12'2	13469	68°9'7	19327	86°57'8	22500	9
52	12'8	722	57'9	3336	20'1	7763	23'5	13571	26'4	19411	87'18'0	22513	8
53	14'5	750	40'1'8	3396	27'1	7850	34'9	13674	43'2	19495	38'2	22524	7
54	16'2	779	5'8	3456	34'2	7938	46'4	13777	69'0'1	19577	58'4	22534	6
55	18'0	807	9'8	3516	41'4	8026	58'0	13880	17'1	19659	88'18'7	22542	5
56	37°19'8	837	40°13'9	3577	45°48'6	8115	55°9'6	13984	69°34'2	19740	88°38'9	22549	4
57	21'6	867	18'1	3639	55'9	8204	21'4	14086	51'3	19819	59'2	22555	3
58	23'5	898	22'2	3701	46'3'2	8293	33'2	14189	70'8'6	19898	89'19'5	22558	2
59	25'3	929	26'4	3763	10'6	8383	45'1	14291	25'9	19978	39'7	22560	1
60	27'3	961	30'7	3826	18'0	8473	57'2	14394	43'3	20055	90'0'0	22561	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 II	1 II	2 II	3 II	4 II	5 II	
0	36°45.0	0 37°42.4	955 40°46.2	3799 46°33.7	8407 56°11.7	14263 70°53.0	19843 60
1	45.0	0 44.4	987 50.5	3862 41.2	8497 23.7	14365 71 10.4	19918 59
2	45.1	1 46.4	1019 54.8	3926 48.8	8587 35.9	14466 27.8	19993 58
3	45.1	2 48.4	1052 59.2	3990 56.4	8677 48.1	14568 45.3	20066 57
4	45.3	4 50.5	1086 41 3.7	4054 47 4.1	8767 57 0.4	14669 72 2.9	20139 56
5	45.4	7 52.6	1120 8.2	4119 11.9	8859 12.8	14770 20.6	20211 55
6	36°45.6	10 37°54.7	1155 41°12.7	4185 47°19.8	8951 57°25.3	14871 72°38.4	20282 54
7	45.8	13 56.9	1190 17.3	4251 27.7	9043 37.9	14972 56.2	20351 53
8	46.0	17 59.1	1226 21.9	4317 35.7	9135 50.5	15074 73 14.1	20420 52
9	46.3	21 38 1.3	1262 26.6	4384 43.7	9228 58 3.3	15174 32.1	20488 51
10	46.6	26 3.6	1299 31.3	4451 51.8	9321 16.1	15275 50.1	20555 50
11	36°46.9	32 38° 5.9	1336 41°36.1	4519 48° 0.0	9414 58°29.1	15376 74° 8.3	20620 49
12	47.3	38 8.3	1374 40.9	4588 8.2	9507 42.1	15476 26.5	20685 48
13	47.7	45 10.7	1412 45.7	4657 16.5	9601 55.2	15577 44.8	20749 47
14	48.1	52 13.1	1451 50.6	4726 24.9	9695 59 8.4	15677 75 3.1	20811 46
15	48.5	60 15.5	1490 55.6	4796 33.4	9790 21.7	15776 21.5	20873 45
16	36°49.0	68 38°18.0	1530 42° 0.6	4866 48°41.9	9885 59°35.1	15876 75°40.0	20933 44
17	49.5	77 20.5	1571 5.7	4937 50.5	9980 48.6	15976 58.5	20992 43
18	50.1	86 23.1	1612 10.8	5008 59.2	10075 60 2.1	16075 76 17.1	21050 42
19	50.7	96 25.7	1653 15.9	5080 49 7.9	10171 15.8	16174 35.8	21107 41
20	51.3	107 28.4	1695 21.1	5152 16.7	10267 29.5	16273 54.5	21163 40
21	36°51.9	117 38°31.0	1738 42°26.4	5225 49°25.6	10363 60°43.4	16371 77°13.3	21217 39
22	52.6	128 33.8	1781 31.7	5298 34.5	10460 57.3	16469 32.2	21271 38
23	53.3	140 36.5	1824 37.0	5372 43.5	10557 61 11.3	16567 51.1	21323 37
24	54.1	153 39.3	1868 42.4	5446 52.6	10654 25.4	16665 78 10.1	21374 36
25	54.8	166 42.1	1913 47.9	5520 50 1.8	10751 39.6	16762 29.1	21423 35
26	36°55.6	179 38°45.0	1958 42°53.4	5595 50°11.0	10848 61°53.9	16859 78°48.2	21472 34
27	56.5	193 47.9	2004 59.0	5671 20.3	10946 62 8.3	16955 79 7.3	21519 33
28	57.3	208 50.8	2050 43 4.6	5747 29.7	11044 22.7	17051 26.5	21565 32
29	58.2	223 53.8	2097 10.3	5823 39.2	11142 37.3	17147 45.8	21610 31
30	59.2	239 56.8	2144 16.0	5900 48.7	11241 52.0	17242 80 5.2	21653 30
31	37° 0.2	255 38°59.9	2192 43°21.8	5977 50°58.3	11340 63° 6.7	17337 80°24.5	21695 29
32	1.2	272 39 3.0	2240 27.6	6055 51 8.0	11439 21.5	17432 43.8	21736 28
33	2.2	289 6.1	2289 33.5	6133 17.8	11538 36.4	17526 81 3.3	21775 27
34	3.2	307 9.3	2338 39.4	6212 27.6	11637 51.5	17620 22.8	21813 26
35	4.3	325 12.5	2388 45.4	6291 37.5	11736 64 6.6	17713 42.3	21850 25
36	37° 5.5	344 39°15.8	2438 43°51.4	6371 51°47.5	11836 64°21.8	17806 82° 1.9	21885 24
37	6.6	363 19.1	2489 57.5	6451 57.6	11936 37.1	17898 21.5	21919 23
38	7.8	383 22.4	2540 44 3.7	6531 52 7.8	12036 52.4	17989 41.1	21952 22
39	9.0	404 25.8	2592 9.9	6612 18.0	12136 65 7.9	18080 83 0.8	21983 21
40	10.3	425 29.2	2645 16.1	6693 28.3	12237 23.5	18171 20.6	22012 20
41	37°11.6	446 39°32.6	2698 44°22.4	6775 52°38.7	12337 65°39.1	18261 83°40.3	22041 19
42	12.9	468 36.1	2751 28.8	6857 49.2	12438 54.9	18350 84 0.1	22068 18
43	14.2	491 39.6	2805 35.2	6940 59.7	12538 66 10.7	18439 20.0	22094 17
44	15.6	514 43.2	2859 41.7	7023 53 10.3	12639 26.6	18527 39.8	22118 16
45	17.1	537 46.8	2914 48.3	7106 21.0	12740 42.6	18615 59.7	22140 15
46	37°18.5	561 39°50.5	2970 44°54.9	7190 53°31.8	12841 66°58.7	18702 85°19.6	22162 14
47	20.0	586 54.2	3026 45 1.6	7274 42.7	12943 67 14.9	18788 39.5	22182 13
48	21.5	611 57.9	3082 8.3	7359 53.7	13044 31.1	18874 59.4	22200 12
49	23.1	637 40 1.7	3139 15.1	7444 54 4.7	13145 47.5	18959 86 19.4	22217 11
50	24.7	663 5.6	3197 21.9	7530 15.8	13247 68 3.9	19043 39.4	22232 10
51	37°26.3	690 40° 9.4	3255 45°28.8	7616 54°27.0	13348 68°20.5	19127 86°59.4	22246 9
52	27.9	717 13.3	3313 35.8	7702 38.3	13450 37.1	19209 87 19.4	22259 8
53	29.6	745 17.3	3372 42.8	7789 49.7	13551 53.8	19291 39.5	22270 7
54	31.4	773 21.3	3432 49.9	7876 55 1.1	13653 69 10.6	19372 59.5	22280 6
55	33.1	802 25.3	3492 57.0	7963 12.7	13755 27.4	19453 88 19.6	22288 5
56	37°34.9	832 40°29.4	3552 46° 4.2	8051 55°24.3	13856 69°44.4	19533 88°39.7	22295 4
57	36.7	862 33.5	3613 11.5	8139 36.0	13958 70 1.4	19612 59.7	22300 3
58	38.6	892 37.7	3674 18.8	8228 47.8	14060 18.5	19690 89 19.8	22303 2
59	40.5	923 41.9	3736 26.2	8317 59.7	14161 35.7	19767 39.9	22305 1
60	42.4	955 46.2	3799 33.7	8407 56 11.7	14263 53.0	19843 90 0.0	22306 0
	11 II	10 II	9 II	8 II	7 II	6 II	m

m	0 II		1 II		2 II		3 II		4 II		5 II		
0	37° 0'0	0	37°57.5	948	41° 1'7	3772	46°49.3	8340	56°26.1	14131	71° 2'7	19632	60
1	0'0	0	59.5	980	6'0	3834	56'8	8429	38'1	14232	19'9	19706	59
2	0'1	1	38 1'5	1013	10'3	3897	47 4'4	8518	50'2	14332	37'2	19780	58
3	0'1	2	3'5	1046	14'7	3961	12'0	8607	57 2'4	14432	54'6	19852	57
4	0'2	4	5'6	1079	19'2	4025	19'7	8697	14'7	14532	72 12'1	19923	56
5	0'4	7	7'7	1113	23'7	4089	27'5	8788	27'0	14633	29'6	19994	55
6	37° 0'6	10	38° 9'9	1147	41°28.2	4154	47°35.3	8879	57°39.5	14733	72°47.2	20064	54
7	0'8	13	12'1	1182	32'8	4220	43'2	8970	52'0	14832	73 4'9	20132	53
8	1'0	17	14'3	1217	37'4	4286	51'2	9061	58 4'6	14932	22'7	20200	52
9	1'3	21	16'5	1253	42'1	4352	59'2	9153	17'3	15032	40'6	20267	51
10	1'6	26	18'8	1290	46'8	4419	48 7'4	9245	30'1	15131	58'5	20332	50
11	37° 1'9	32	38°21.1	1327	41°51.6	4486	48°15.5	9337	58°43.0	15230	74°16.5	20397	49
12	2'3	38	23'5	1365	56'4	4554	23'8	9430	55'9	15329	34'5	20460	48
13	2'7	44	25'8	1403	42 1'3	4623	32'1	9523	59 9'0	15428	52'6	20523	47
14	3'1	51	28'3	1442	6'2	4692	40'4	9616	22'2	15527	75 10'8	20585	46
15	3'5	59	30'7	1481	11'1	4761	48'9	9709	35'4	15626	29'1	20645	45
16	37° 4'0	67	38°33.2	1520	42°16.2	4831	48°57.4	9803	59°48.7	15724	75°47.4	20704	44
17	4'5	76	35'8	1560	21'2	4901	49 6'0	9897	60 2'1	15822	76 5'8	20762	43
18	5'1	85	38'3	1600	26'3	4972	14'7	9992	15'6	15920	24'3	20819	42
19	5'7	95	40'9	1642	31'5	5043	23'3	10086	29'2	16018	42'8	20875	41
20	6'3	105	43'6	1684	36'7	5114	32'1	10181	42'9	16115	77 1'4	20931	40
21	37° 6'9	116	38°46.3	1726	42°41.9	5186	49°41.0	10277	60°56.7	16212	77°20'0	20984	39
22	7'6	127	49'0	1769	47'3	5258	49'9	10373	61 10'5	16309	38'8	21036	38
23	8'3	139	51'8	1812	52'6	5331	58'9	10468	24'5	16406	57'5	21087	37
24	9'1	152	54'6	1856	58'0	5405	50 8'0	10564	38'5	16502	78 16'3	21137	36
25	9'9	164	57'4	1900	43 3'5	5479	17'2	10660	52'6	16598	35'2	21186	35
26	37°10'7	178	39° 0'3	1945	43° 9'0	5554	50°26.4	10756	62° 6'8	16694	78°54.1	21234	34
27	11'5	192	3'2	1990	14'6	5629	35'7	10853	21'1	16789	79 13'1	21280	33
28	12'4	207	6'1	2036	20'2	5704	45'0	10951	35'5	16883	32'2	21326	32
29	13'3	222	9'1	2082	25'8	5780	54'5	11048	50'0	16977	51'2	21370	31
30	14'2	237	12'1	2129	31'6	5856	51 4'0	11145	63 4'6	17071	80 10'4	21413	30
31	37°15'2	253	39°15.2	2177	43°37.3	5933	51°13.6	11243	63°19.3	17165	80°29.6	21453	29
32	16'2	270	18'3	2225	43'2	6010	23'3	11340	34'0	17258	48'8	21493	28
33	17'2	287	21'4	2273	49'1	6087	33'0	11438	48'9	17351	81 8'1	21532	27
34	18'3	305	24'6	2322	55'0	6165	42'8	11536	64 3'8	17443	27'4	21569	26
35	19'4	323	27'8	2371	44 1'0	6244	52'7	11635	18'8	17535	46'8	21605	25
36	37°20'5	342	39°31.1	2421	44° 7'0	6323	52° 2'7	11734	64°33.9	17626	82° 6'2	21640	24
37	21'7	361	34'4	2472	13'1	6402	12'8	11832	49'1	17717	25'6	21673	23
38	22'9	381	37'7	2523	19'3	6481	22'9	11931	65 4'4	17808	45'1	21706	22
39	24'1	401	41'1	2574	25'5	6561	33'1	12030	19'8	17898	83 4'6	21736	21
40	25'3	421	44'5	2626	31'7	6642	43'4	12130	35'3	17987	24'2	21766	20
41	37°26'6	443	39°48.0	2678	44°38.0	6723	52°53.7	12229	65°50.8	18075	83°43.8	21793	19
42	28'0	465	51'5	2731	44'4	6805	53 4'2	12329	66 6'5	18163	84 3'4	21820	18
43	29'3	487	55'0	2785	50'9	6887	14'7	12428	22'2	18251	23'0	21845	17
44	30'7	510	58'6	2839	57'4	6969	25'3	12528	38'0	18338	42'7	21868	16
45	32'1	534	40 2'2	2894	45 3'9	7052	36'0	12628	53'9	18424	85 2'4	21891	15
46	37°33'6	557	40° 5'9	2949	45°10.5	7135	53°46.8	12728	67° 9'9	18510	85°22.1	21911	14
47	35'1	582	9'6	3004	17'2	7218	57'6	12828	26'0	18594	41'8	21931	13
48	36'6	607	13'3	3060	23'9	7302	54 8'5	12928	42'1	18678	86 1'6	21950	12
49	38'2	633	17'1	3116	30'7	7387	19'5	13028	58'4	18762	21'4	21966	11
50	39'8	658	21'0	3174	37'5	7472	30'6	13128	68 14'7	18845	41'2	21982	10
51	37°41'4	685	40°24.8	3232	45°44.4	7557	54°41.8	13228	68°31.1	18927	87° 1'1	21995	9
52	43'0	712	28'7	3290	51'4	7642	53'0	13328	47'7	19009	20'9	22007	8
53	44'7	740	32'7	3348	58'4	7727	55 4'4	13429	69 4'2	19090	40'8	22018	7
54	46'5	769	36'7	3407	46 5'5	7814	15'8	13529	20'9	19170	88 0'6	22027	6
55	48'2	797	40'8	3467	12'6	7901	27'3	13630	37'7	19249	20'5	22035	5
56	37°50'0	826	40°44.8	3527	46°19.8	7988	55°38.9	13730	69°54.5	19328	88°40.4	22042	4
57	51'8	856	49'0	3588	27'1	8076	50'6	13831	70 11'4	19405	89 0'3	22047	3
58	53'7	886	53'2	3649	34'4	8163	56 2'3	13931	28'4	19481	20'2	22051	2
59	55'6	917	57'4	3710	41'8	8251	14'2	14031	45'5	19557	40'1	22053	1
60	57'5	948	41 1'7	3772	49'3	8340	26'1	14131	71 2'7	19632	90 0'0	22054	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	37°15.0	0	38°12.7	942	41°17.1	3745	47° 4.8	8273	56°40.4	14001	71°12.2	19423	60
1	15.0	0	14.7	973	21.4	3807	12.3	8361	52.4	14100	29.3	19496	59
2	15.1	1	16.7	1005	25.8	3869	19.9	8449	57 4.4	14199	46.5	19568	58
3	15.2	2	18.7	1038	30.2	3932	27.5	8538	16.6	14298	72 3.8	19639	57
4	15.3	4	20.8	1071	34.6	3996	35.2	8627	28.8	14397	21.1	19710	56
5	15.4	6	22.9	1105	39.1	4060	43.0	8717	41.1	14496	38.5	19779	55
6	37°15.6	9	38°25.0	1139	41°43.7	4124	47°50.8	8806	57°53.5	14594	72°56.0	19848	54
7	15.8	13	27.2	1174	48.3	4189	58.8	8896	58 6.0	14693	73 13.6	19915	53
8	16.0	17	29.4	1209	52.9	4255	48 6.7	8987	18.6	14791	31.2	19982	52
9	16.3	21	31.7	1245	57.6	4321	14.7	9078	31.2	14889	48.9	20047	51
10	16.6	26	34.0	1281	42 2.3	4387	22.8	9169	43.9	14987	74 6.7	20112	50
11	37°16.9	32	38°36.3	1318	42° 7.1	4454	48°31.0	9260	58°56.8	15085	74°24.6	20175	49
12	17.3	38	38.6	1355	11.9	4521	39.2	9352	59 9.7	15183	42.5	20238	48
13	17.7	44	41.0	1393	16.8	4589	47.5	9444	22.7	15281	75 0.5	20299	47
14	18.1	51	43.5	1431	21.7	4657	55.9	9536	35.8	15378	18.5	20360	46
15	18.5	59	45.9	1470	26.7	4726	49 4.3	9629	49.0	15475	36.6	20419	45
16	37°19.0	67	38°48.4	1510	42°31.7	4795	49°12.8	9722	60° 2.2	15572	75°54.8	20478	44
17	19.6	76	51.0	1550	36.7	4865	21.4	9815	15.6	15669	76 13.1	20535	43
18	20.1	85	53.6	1590	41.9	4935	30.0	9908	29.0	15766	31.4	20591	42
19	20.7	95	56.2	1631	47.0	5005	38.7	10002	42.5	15862	49.8	20646	41
20	21.3	105	58.8	1672	52.2	5076	47.5	10096	56.2	15958	77 8.2	20700	40
21	37°22.0	116	39° 1.5	1714	42°57.5	5148	49°56.4	10190	61° 9.9	16054	77°26.7	20752	39
22	22.6	127	4.2	1757	43 2.8	5220	50 5.3	10285	23.6	16150	45.2	20804	38
23	23.4	139	7.0	1800	8.2	5292	14.3	10379	37.5	16245	78 3.8	20854	37
24	24.1	151	9.8	1843	13.6	5365	23.3	10474	51.5	16340	22.5	20903	36
25	24.9	164	12.6	1887	19.1	5438	32.5	10570	62 5.6	16434	41.2	20951	35
26	37°25.7	177	39°15.5	1932	43°24.6	5512	50°41.7	10665	62°19.7	16528	79° 0.0	20998	34
27	26.5	191	18.4	1977	30.1	5586	51.0	10761	33.9	16622	18.8	21044	33
28	27.4	205	21.4	2022	35.7	5661	51 0.3	10857	48.2	16716	37.7	21088	32
29	28.3	220	24.4	2068	41.4	5736	9.7	10953	63 2.7	16809	56.6	21131	31
30	29.2	236	27.4	2115	47.1	5812	19.2	11049	17.2	16902	80 15.6	21173	30
31	37°30.2	252	39°30.5	2162	43°52.9	5888	51°28.8	11146	63°31.7	16994	80°34.6	21213	29
32	31.2	268	33.6	2209	58.7	5964	38.5	11243	46.4	17086	53.7	21253	28
33	32.2	285	36.7	2257	44 4.6	6041	48.2	11340	64 1.2	17177	81 12.8	21291	27
34	33.3	303	39.9	2306	10.6	6118	58.0	11437	16.0	17268	31.9	21327	26
35	34.4	321	43.1	2355	16.6	6196	52 7.9	11534	31.0	17358	51.1	21363	25
36	37°35.6	339	39°46.4	2405	44°22.6	6274	52°17.8	11631	64°46.0	17448	82°10.4	21397	24
37	36.7	358	49.7	2455	28.7	6353	27.8	11729	65 1.1	17537	29.7	21430	23
38	37.9	378	53.0	2505	34.9	6432	37.9	11827	16.3	17626	49.0	21461	22
39	39.1	398	56.4	2556	41.1	6511	48.1	11925	31.6	17715	83 8.3	21491	21
40	40.4	419	59.9	2608	47.3	6591	58.4	12023	47.0	17803	27.7	21520	20
41	37°41.7	440	40° 3.3	2660	44°53.6	6672	53° 8.7	12121	66° 2.4	17890	83°47.1	21547	19
42	43.0	462	6.8	2713	45 0.0	6752	19.1	12220	18.0	17977	84 6.5	21573	18
43	44.4	484	10.4	2766	6.4	6833	29.6	12318	33.6	18063	26.0	21598	17
44	45.8	507	14.0	2819	13.0	6915	40.2	12416	49.3	18149	45.5	21621	16
45	47.2	530	17.6	2873	19.5	6997	50.9	12515	67 5.1	18234	85 5.0	21643	15
46	37°48.7	554	40°21.3	2928	45°26.1	7079	54° 1.6	12614	67°21.0	18318	85°24.6	21664	14
47	50.2	578	25.0	2983	32.8	7162	12.4	12713	37.0	18402	44.2	21683	13
48	51.7	603	28.7	3039	39.5	7245	23.3	12812	53.0	18485	86 3.8	21701	12
49	53.3	628	32.5	3095	46.3	7329	34.3	12911	68 9.2	18567	23.4	21717	11
50	54.9	654	36.4	3152	53.1	7413	45.4	13010	25.4	18648	43.0	21732	10
51	37°56.5	681	40°40.2	3209	46° 0.0	7497	54°56.5	13109	68°41.7	18729	87° 2.7	21745	9
52	58.2	708	44.2	3266	7.0	7582	55 7.7	13208	58.1	18810	22.3	21757	8
53	59.9	735	48.1	3324	14.0	7667	19.0	13307	69 14.6	18889	42.0	21768	7
54	38 1.6	763	52.1	3383	21.1	7752	30.4	13406	31.2	18968	88 1.7	21778	6
55	3.3	792	56.2	3442	28.2	7838	41.9	13505	47.8	19046	21.4	21786	5
56	38° 5.1	821	41° 0.3	3502	46°35.4	7924	55°53.4	13604	70° 4.5	19123	88°41.1	21792	4
57	7.0	850	4.4	3562	42.7	8011	56 5.0	13704	21.3	19199	89 0.8	21797	3
58	8.8	880	8.6	3622	50.0	8098	16.7	13803	38.2	19275	20.6	21801	2
59	10.7	911	12.8	3683	57.4	8185	28.5	13902	55.2	19349	40.3	21803	1
60	12.7	942	17.1	3745	47 4.8	8273	40.4	14001	71 12.2	19423	90 0.0	21803	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	37°30·0	0	38°27·8	935	41°32·5	3718	47°20·3	8206	56°54·7	13871	71°21·6	19216	60
1	30·0	0	29·8	967	36·8	3780	27·8	8293	57 6·6	13969	38·6	19287	59
2	30·1	1	31·8	999	41·2	3842	35·4	8381	18·6	14066	55·7	19358	58
3	30·1	2	33·8	1032	45·6	3904	43·0	8469	30·7	14164	72 12·8	19428	57
4	30·3	4	35·9	1065	50·1	3966	50·7	8557	42·9	14262	30·1	19498	56
5	30·4	6	38·0	1098	54·6	4030	58·5	8646	55·2	14359	47·4	19566	55
6	37°30·6	9	38°40·2	1132	41°59·1	4094	48° 6·3	8735	58° 7·5	14456	73° 4·7	19634	54
7	30·8	13	42·4	1166	42 3·7	4159	14·2	8824	19·9	14554	22·2	19700	53
8	31·0	17	44·6	1201	8·4	4224	22·2	8913	32·4	14651	39·7	19765	52
9	31·3	21	46·8	1236	13·1	4289	30·2	9003	45·0	14748	57·2	19829	51
10	31·6	26	49·1	1272	17·8	4354	38·3	9093	57·7	14844	74 14·9	19892	50
11	37°31·9	32	38°51·4	1309	42°22·6	4420	48°46·4	9183	59°10·5	14941	74°32·6	19955	49
12	32·3	38	53·8	1346	27·4	4487	54·6	9274	23·4	15037	50·4	20016	48
13	32·7	44	56·2	1383	32·3	4555	49 2·9	9365	36·3	15134	75 8·2	20077	47
14	33·1	51	58·6	1422	37·2	4623	11·3	9456	49·3	15230	26·1	20136	46
15	33·6	59	39 1·1	1461	42·2	4691	19·7	9548	60 2·4	15326	44·1	20195	45
16	37°34·1	66	39° 3·6	1500	42°47·2	4759	49°28·2	9640	60°15·6	15422	76° 2·1	20252	44
17	34·6	75	6·2	1539	52·3	4828	36·7	9732	28·9	15518	20·2	20309	43
18	35·1	84	8·8	1579	57·4	4898	45·4	9825	42·3	15614	38·4	20364	42
19	35·7	94	11·4	1619	43 2·5	4968	54·1	9918	55·8	15708	56·6	20418	41
20	36·3	104	14·0	1660	7·7	5038	50 2·8	10011	61 9·3	15802	77 14·9	20471	40
21	37°37·0	115	39°16·7	1702	43°13·0	5109	50°11·7	10104	61°23·0	15897	77°33·2	20523	39
22	37·7	126	19·5	1744	18·3	5180	20·6	10197	36·7	15991	51·6	20574	38
23	38·4	138	22·2	1787	23·7	5252	29·5	10291	50·5	16085	78 10·1	20623	37
24	39·1	150	25·0	1830	29·1	5324	38·6	10385	62 4·4	16179	28·6	20671	36
25	39·9	163	27·9	1874	34·6	5397	47·7	10479	18·4	16272	47·2	20718	35
26	37°40·7	176	39°30·8	1918	43°40·1	5470	50°56·9	10574	62°32·5	16364	79° 5·8	20764	34
27	41·6	190	33·7	1963	45·7	5544	51 6·2	10669	46·6	16457	24·5	20809	33
28	42·4	204	36·6	2008	51·3	5618	15·5	10763	63 0·9	16549	43·2	20853	32
29	43·3	219	39·6	2054	57·0	5692	24·9	10858	15·2	16641	80 1·9	20895	31
30	44·3	234	42·7	2100	44 2·7	5767	34·4	10954	29·6	16732	20·7	20936	30
31	37°45·3	250	39°45·8	2147	44° 8·5	5843	51°43·9	11049	63°44·1	16823	80°39·6	20976	29
32	46·3	266	48·9	2194	14·3	5919	53·6	11145	58·7	16913	58·5	21014	28
33	47·3	283	52·0	2241	20·2	5995	52 3·3	11241	64 13·4	17003	81 17·5	21052	27
34	48·4	301	55·2	2289	26·1	6071	13·1	11337	28·2	17092	36·5	21088	26
35	49·5	318	58·4	2338	32·1	6148	22·9	11433	43·0	17182	55·5	21123	25
36	37°50·6	337	40° 1·7	2387	44°38·1	6226	52°32·8	11529	64°57·9	17271	82°14·6	21157	24
37	51·8	356	5·0	2437	44·2	6304	42·8	11626	65 13·0	17359	33·7	21189	23
38	53·0	376	8·4	2487	50·4	6382	52·9	11723	28·1	17447	52·8	21220	22
39	54·2	395	11·8	2538	56·6	6461	53 3·1	11819	43·3	17534	83 12·0	21249	21
40	55·5	416	15·2	2589	45 2·9	6540	13·3	11916	58·6	17620	31·2	21277	20
41	37°56·8	437	40°18·7	2641	45° 9·2	6620	53°23·6	12013	66°13·9	17706	83°50·4	21304	19
42	58·1	458	22·2	2693	15·6	6700	34·0	12111	29·4	17792	84 9·7	21329	18
43	59·5	481	25·7	2746	22·0	6780	44·5	12208	44·9	17877	29·0	21354	17
44	38 0·9	504	29·3	2799	28·5	6861	55·0	12306	67 0·5	17961	48·3	21377	16
45	2·3	526	32·9	2853	35·1	6942	54 5·6	12403	16·2	18044	85 7·7	21398	15
46	38° 3·8	550	40°36·6	2907	45°41·7	7024	54°16·4	12501	67°32·0	18127	85°27·1	21418	14
47	5·3	574	40·3	2962	48·3	7106	27·1	12598	47·9	18210	46·5	21437	13
48	6·8	599	44·1	3017	55·0	7188	38·0	12696	68 3·9	18292	86 5·9	21455	12
49	8·4	624	47·9	3073	46 1·8	7271	48·9	12794	19·9	18373	25·3	21471	11
50	10·0	649	51·7	3129	8·6	7354	55 0·0	12891	36·0	18453	44·8	21484	10
51	38°11·6	676	40°55·6	3186	46°15·5	7437	55°11·1	12989	68°52·2	18533	87° 4·3	21498	9
52	13·2	703	59·5	3243	22·5	7521	22·3	13087	69 8·5	18611	23·8	21511	8
53	14·9	730	41 3·5	3301	29·5	7605	33·5	13185	24·9	18689	43·3	21521	7
54	16·7	758	7·5	3359	36·6	7690	44·9	13283	41·3	18767	88 2·8	21530	6
55	18·5	786	11·6	3417	43·7	7775	56·3	13381	57·8	18844	22·3	21538	5
56	38°20·3	815	41°15·7	3476	46°50·9	7861	56° 7·8	13479	70°14·4	18920	88°41·8	21544	4
57	22·1	845	19·8	3536	58·2	7947	19·4	13577	31·1	18995	89 1·4	21549	3
58	24·0	874	24·0	3596	47 5·5	8033	31·1	13675	47·8	19069	20·9	21553	2
59	25·9	905	28·2	3657	12·9	8119	42·8	13773	71 4·7	19143	40·4	21555	1
60	27·8	935	32·5	3718	20·3	8206	54·7	13871	21·6	19216	90 0·0	21555	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 II	1 II	2 II	3 II	4 II	5 II							
0	37°45'0	0	38°42'9	929	41°47'9	3691	47°35'8	8139	57° 8'8	13741	71°31'0	19009	60
1	45'0	0	44'9	960	52'2	3752	43'3	8225	20'7	13837	47'9	19080	59
2	45'1	1	46'9	992	56'6	3813	50'8	8312	32'7	13933	72 4'8	19150	58
3	45'1	2	49'0	1024	42 1'0	3875	58'5	8399	44'7	14030	21'8	19219	57
4	45'3	4	51'1	1057	5'5	3938	48 6'2	8487	56'8	14127	38'9	19287	56
5	45'4	6	53'2	1090	10'0	4001	13'9	8575	58 9'1	14223	56'1	19354	55
6	37°45'6	9	38°55'3	1124	42°14'6	4064	48°21'7	8662	58°21'4	14319	73°13'3	19420	54
7	45'8	13	57'5	1158	19'2	4128	29'6	8751	33'7	14415	30'6	19486	53
8	46'0	17	59'7	1193	23'8	4192	37'6	8840	46'2	14511	48'0	19550	52
9	46'3	21	39 2'0	1228	28'5	4257	45'6	8929	58'8	14607	74 5'4	19613	51
10	46'6	26	4'3	1264	33'2	4322	53'6	9018	59 11'4	14702	22'9	19676	50
11	37°46'9	31	39° 6'6	1300	42°38'0	4388	49° 1'8	9107	59°24'1	14798	74°40'5	19737	49
12	47'3	37	9'0	1337	42'8	4454	10'0	9197	36'9	14893	58'2	19798	48
13	47'7	44	11'4	1374	47'7	4521	18'3	9287	49'8	14988	75 15'9	19857	47
14	48'1	51	13'8	1412	52'6	4588	26'6	9378	60 2'8	15083	33'6	19916	46
15	48'6	58	16'3	1450	57'6	4656	35'0	9468	15'8	15178	51'5	19973	45
16	37°49'1	66	39°18'8	1489	43° 2'6	4724	49°43'5	9559	60°29'0	15272	76° 9'4	20029	44
17	49'6	75	21'4	1528	7'7	4792	52'0	9650	42'2	15366	27'3	20084	43
18	50'1	84	24'0	1568	12'8	4861	50 0'6	9742	55'5	15460	45'3	20139	42
19	50'7	93	26'6	1608	18'0	4930	9'3	9834	61 8'9	15554	77 3'6	20192	41
20	51'3	103	29'3	1649	23'2	5000	18'1	9926	22'4	15647	21'6	20244	40
21	37°52'0	114	39°32'0	1690	43°28'5	5071	50°26'9	10018	61°36'0	15740	77°39'8	20295	39
22	52'7	125	34'7	1732	33'8	5142	35'8	10110	49'6	15833	58'0	20345	38
23	53'4	137	37'5	1775	39'2	5213	44'8	10203	62 3'4	15926	78 16'3	20393	37
24	54'2	149	40'3	1818	44'6	5284	53'8	10296	17'2	16018	34'7	20441	36
25	54'9	162	43'1	1861	50'1	5356	51 2'9	10389	31'1	16110	53'1	20487	35
26	37°55'7	175	39°46'0	1905	43°55'6	5429	51°12'1	10483	62°45'1	16201	79°11'5	20532	34
27	56'6	188	48'9	1949	44 1'2	5502	21'3	10576	59'2	16292	30'0	20576	33
28	57'5	203	51'9	1994	6'8	5575	30'6	10670	63 13'4	16383	48'6	20619	32
29	58'4	217	54'9	2039	12'5	5649	40'0	10764	27'6	16474	80 7'2	20661	31
30	59'3	233	57'9	2085	18'2	5723	49'5	10858	42'0	16564	25'9	20701	30
31	38° 0'3	248	40° 1'0	2131	44°24'0	5798	51°59'0	10953	63°56'4	16653	80°44'6	20740	29
32	1'3	265	4'1	2178	29'8	5873	52 8'6	11048	64 10'9	16742	81 3'3	20778	28
33	2'3	281	7'3	2226	35'7	5948	18'3	11142	25'5	16831	22'1	20815	27
34	3'4	299	10'5	2274	41'6	6024	28'1	11237	40'2	16920	40'9	20850	26
35	4'5	317	13'7	2322	47'6	6101	37'9	11332	55'0	17008	59'8	20884	25
36	38° 5'6	335	40°17'0	2371	44°53'7	6178	52°47'8	11428	65° 9'8	17095	82°18'7	20917	24
37	6'8	354	20'3	2420	59'8	6255	57'8	11523	24'8	17181	37'6	20949	23
38	8'0	373	23'7	2470	45 5'9	6332	53 7'8	11619	39'8	17268	56'6	20979	22
39	9'2	393	27'1	2520	12'1	6410	18'0	11714	54'9	17354	83 15'6	21008	21
40	10'5	413	30'5	2571	18'4	6489	28'2	11810	66 10'1	17439	34'6	21036	20
41	38°11'8	434	40°34'0	2622	45°24'7	6568	53°38'5	11906	66°25'3	17524	83°53'7	21062	19
42	13'2	456	37'5	2673	31'1	6647	48'8	12002	40'7	17608	84 12'8	21087	18
43	14'5	478	41'0	2727	37'5	6727	59'3	12098	56'1	17691	32'0	21111	17
44	15'9	500	44'6	2780	44'0	6807	54 9'8	12195	67 11'7	17774	51'1	21134	16
45	17'4	523	48'3	2833	50'5	6887	20'4	12291	27'3	17857	85 10'3	21155	15
46	38°18'8	546	40°51'9	2887	45°57'2	6968	54°31'0	12388	67°42'9	17939	85°29'5	21175	14
47	20'3	570	55'6	2941	46 3'8	7049	41'8	12484	58'7	18020	48'7	21193	13
48	21'9	595	59'4	2996	10'5	7131	52'6	12581	68 14'6	18100	86 8'0	21210	12
49	23'4	620	41 3'2	3051	17'3	7213	55 3'5	12677	30'5	18180	27'3	21226	11
50	25'0	645	7'1	3107	24'1	7295	14'5	12774	46'5	18259	46'6	21241	10
51	38°26'7	672	41°11'0	3163	46°31'0	7378	55°25'6	12871	69° 2'6	18337	87° 5'9	21254	9
52	28'3	698	14'9	3219	38'0	7461	36'7	12967	18'8	18415	25'2	21265	8
53	30'0	725	18'9	3276	45'0	7545	48'0	13064	35'0	18492	44'5	21276	7
54	31'8	753	22'9	3334	52'1	7629	59'3	13161	51'4	18568	88 3'8	21285	6
55	33'6	781	27'0	3392	59'2	7713	56 10'7	13257	70 7'8	18644	23'2	21292	5
56	38°35'4	809	41°31'1	3451	47° 6'4	7797	56°22'1	13354	70°24'3	18718	88°42'5	21298	4
57	37'2	839	35'2	3510	13'7	7882	33'7	13451	40'9	18792	89 1'9	21303	3
58	39'1	868	39'4	3570	21'0	7967	45'3	13548	57'5	18865	21'3	21307	2
59	41'0	898	43'6	3630	28'4	8053	57'0	13644	71 14'2	18937	40'6	21309	1
60	42'9	929	47'9	3691	35'8	8139	57 8'8	13741	31'0	19009	90 0'0	21309	0
	11 II	10 II	9 II	8 II	7 II	6 II	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	38° 0.0	0 38°58.1	923 42° 3.3	3663 47°51.2	8073 57°22.9	13611 71°40.3	18805 60
1	0.0	0 39 0.1	954 7.6	3724 58.7	8158 34.8	13706 57.0	18874 59
2	0.1	1 2.1	985 12.0	3785 48 6.2	8244 46.7	13802 72 13.8	18943 58
3	0.1	2 4.1	1017 16.4	3846 13.8	8330 58.7	13897 30.7	19011 57
4	0.2	4 6.2	1049 20.9	3908 21.5	8417 58 10.8	13993 47.7	19078 56
5	0.4	6 8.3	1082 25.4	3970 29.3	8504 22.9	14088 73 4.7	19144 55
6	38° 0.6	9 39°10.5	1116 42°30.0	4033 48°37.1	8591 58°35.2	14183 73°21.8	19209 54
7	0.8	13 12.7	1150 34.6	4097 45.0	8678 47.5	14277 39.0	19273 53
8	1.0	16 14.9	1185 39.2	4161 52.9	8766 59.9	14372 56.3	19337 52
9	1.3	21 17.2	1220 43.9	4225 49 0.9	8854 59 12.4	14466 74 13.6	19399 51
10	1.6	26 19.5	1255 48.7	4290 9.0	8942 25.0	14560 30.9	19460 50
11	38° 1.9	31 39°21.8	1291 42°53.4	4355 49°17.1	9031 59°37.7	14654 74°48.4	19521 49
12	2.3	37 24.2	1327 58.3	4420 25.3	9120 50.4	14748 75 5.9	19581 48
13	2.7	43 26.6	1364 43 3.2	4486 33.6	9209 60 3.2	14842 23.5	19638 47
14	3.1	50 29.0	1402 8.1	4553 41.9	9298 16.1	14936 41.1	19696 46
15	3.6	58 31.5	1440 13.1	4620 50.3	9388 29.1	15029 58.8	19753 45
16	38° 4.1	66 39°34.0	1478 43°18.1	4688 49°58.8	9478 60°42.2	15122 76°16.5	19808 44
17	4.6	74 36.6	1517 23.2	4756 50 7.3	9568 55.4	15215 34.3	19862 43
18	5.2	83 39.2	1557 28.3	4824 15.9	9659 61 8.6	15308 52.2	19916 42
19	5.8	92 41.8	1597 33.5	4893 24.6	9750 22.0	15401 77 10.2	19968 41
20	6.4	103 44.5	1637 38.7	4962 33.3	9841 35.4	15493 28.2	20019 40
21	38° 7.0	113 39°47.2	1678 43°44.0	5032 50°42.1	9932 61°48.9	15584 77°46.2	20069 39
22	7.7	124 49.9	1720 49.3	5102 51.0	10023 62 2.5	15675 78 4.3	20118 38
23	8.4	136 52.7	1763 54.6	5173 59.9	10115 16.2	15767 22.5	20166 37
24	9.2	148 55.5	1805 44 0.0	5244 51 8.9	10207 29.9	15859 40.7	20213 36
25	10.0	160 58.3	1848 5.5	5315 18.0	10299 43.7	15949 58.9	20258 35
26	38° 10.8	173 40° 1.2	1891 44°11.1	5387 51°27.2	10391 62°57.7	16039 79°17.2	20303 34
27	11.6	187 4.2	1935 16.6	5459 36.4	10484 63 11.7	16129 35.6	20345 33
28	12.5	201 7.1	1979 22.2	5532 45.7	10577 25.8	16219 54.0	20387 32
29	13.4	215 10.1	2024 27.9	5605 55.1	10670 40.0	16308 80 12.4	20428 31
30	14.3	231 13.2	2070 33.7	5679 52 4.5	10763 54.2	16397 30.9	20467 30
31	38° 15.3	247 40°16.3	2116 44°39.5	5753 52°14.0	10857 64° 8.6	16485 80°49.5	20506 29
32	16.3	263 19.4	2163 45.3	5827 23.6	10951 23.0	16573 81 8.1	20543 28
33	17.4	280 22.6	2210 51.2	5902 33.2	11044 37.5	16660 26.7	20580 27
34	18.4	297 25.8	2257 57.1	5977 43.0	11138 52.1	16747 45.3	20615 26
35	19.5	314 29.0	2305 45 3.1	6053 52.8	11232 65 6.8	16833 82 4.0	20648 25
36	38° 20.7	333 40°32.3	2354 45° 9.1	6130 53° 2.7	11326 65°21.6	16919 82°22.8	20681 24
37	21.9	351 35.6	2403 15.2	6206 12.6	11421 36.4	17005 41.6	20712 23
38	23.1	371 38.9	2452 21.4	6283 22.7	11515 51.4	17090 83 0.4	20741 22
39	24.3	390 42.3	2502 27.6	6360 32.8	11610 66 6.4	17175 19.2	20770 21
40	25.6	411 45.8	2553 33.9	6438 43.0	11705 21.5	17259 38.1	20797 20
41	38° 26.9	431 40°49.3	2604 45°40.2	6516 53°53.2	11800 66°36.7	17342 83°57.0	20823 19
42	28.2	453 52.8	2655 46.6	6595 54 3.5	11895 51.9	17425 84 15.9	20848 18
43	29.6	474 56.3	2707 53.0	6674 13.9	11989 67 7.3	17507 34.9	20871 17
44	31.0	497 59.9	2759 59.5	6753 24.4	12084 22.7	17589 53.9	20894 16
45	32.4	519 41 3.6	2812 46 6.0	6833 35.0	12179 38.2	17670 85 12.9	20914 15
46	38° 33.9	543 41° 7.3	2865 46°12.6	6913 54°45.7	12275 67°53.8	17751 85°31.9	20934 14
47	35.4	566 11.0	2919 19.3	6993 56.4	12370 68 9.5	17830 51.0	20952 13
48	36.9	591 14.8	2973 26.0	7073 55 7.2	12465 25.2	17909 86 10.1	20969 12
49	38.5	616 18.6	3028 32.8	7155 18.0	12561 41.0	17988 29.2	20984 11
50	40.1	641 22.4	3084 39.6	7237 29.0	12656 56.9	18066 48.3	20998 10
51	38° 41.8	667 41°26.3	3140 46°46.5	7319 55°40.0	12752 69°12.9	18143 87° 7.4	21011 9
52	43.4	693 30.3	3196 53.4	7401 51.1	12847 29.0	18220 26.5	21023 8
53	45.1	720 34.3	3253 47 0.4	7484 56 2.3	12943 45.1	18296 45.7	21033 7
54	46.9	748 38.3	3310 7.5	7567 13.6	13039 70 1.4	18371 88 4.9	21042 6
55	48.7	776 42.3	3368 14.6	7650 25.0	13134 17.7	18445 24.0	21049 5
56	38° 50.5	804 41°46.4	3426 47°21.8	7734 56°36.4	13230 70°34.0	18519 88°43.2	21055 4
57	52.3	833 50.6	3484 29.1	7818 47.9	13325 50.5	18591 89 2.4	21060 3
58	54.2	862 54.8	3544 36.4	7903 59.5	13420 71 7.0	18663 21.6	21063 2
59	56.1	892 59.0	3604 43.8	7988 57 11.2	13516 23.6	18734 40.8	21065 1
60	58.1	923 42 3.3	3663 51.2	8073 22.9	13611 40.3	18805 90 0.0	21066 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 II		1 II		2 II		3 II		4 II		5 II		
0	38°15·0	0	39°13·2	916	42°18·7	3636	48° 6·5	8006	57°36·9	13483	71°49·5	18602	60
1	15·0	0	15·2	947	23·0	3696	14·0	8091	48·7	13577	72 6·1	18670	59
2	15·1	1	17·2	978	27·4	3757	21·6	8176	58 0·6	13671	22·8	18737	58
3	15·1	2	19·2	1010	31·8	3818	29·2	8261	12·5	13765	39·6	18804	57
4	15·3	4	21·3	1042	36·3	3879	36·9	8347	24·6	13859	56·4	18870	56
5	15·4	6	23·4	1075	40·8	3941	44·6	8433	36·7	13953	73 13·3	18935	55
6	38°15·6	9	39°25·6	1108	42°45·4	4003	48°52·4	8519	58°48·9	14046	73°30·3	18999	54
7	15·8	13	27·8	1142	50·0	4066	49 0·3	8606	59 1·1	14140	47·3	19062	53
8	16·0	16	30·0	1176	54·6	4129	8·2	8692	13·5	14233	74 4·4	19125	52
9	16·3	21	32·3	1211	59·3	4193	16·2	8779	26·0	14326	21·6	19186	51
10	16·6	26	34·6	1246	43 4·1	4257	24·2	8867	38·5	14419	38·8	19246	50
11	38°16·9	31	39°36·9	1282	43° 8·9	4322	49°32·4	8954	59°51·1	14512	74°56·2	19306	49
12	17·3	37	39·3	1318	13·7	4387	40·5	9042	60 3·8	14605	75 13·5	19364	48
13	17·7	43	41·7	1355	18·6	4453	48·8	9131	16·6	14698	31·0	19422	47
14	18·1	50	44·2	1392	23·5	4519	57·1	9219	29·4	14790	48·4	19478	46
15	18·6	57	46·7	1430	28·5	4585	50 5·5	9308	42·3	14882	76 6·0	19534	45
16	38°19·1	65	39°49·2	1468	43°33·5	4652	50°13·9	9397	60°55·4	14974	76°23·6	19588	44
17	19·6	74	51·7	1507	38·6	4720	22·4	9486	61 8·5	15065	41·3	19642	43
18	20·2	83	54·4	1546	43·7	4788	31·0	9576	21·7	15157	59·0	19694	42
19	20·8	92	57·0	1586	48·9	4856	39·7	9666	34·9	15248	77 16·8	19745	41
20	21·4	102	59·7	1626	54·1	4924	48·4	9756	48·3	15339	34·7	19795	40
21	38°22·0	112	40° 2·4	1667	43°59·4	4993	50°57·2	9846	62° 1·7	15429	77°52·6	19845	39
22	22·7	123	5·1	1708	44 4·7	5063	51 6·1	9937	15·2	15520	78 10·5	19893	38
23	23·4	135	7·9	1750	10·1	5133	15·0	10027	28·8	15610	28·5	19940	37
24	24·2	147	10·7	1792	15·5	5203	24·0	10118	42·5	15699	46·6	19986	36
25	25·0	159	13·6	1835	21·0	5274	33·0	10210	56·3	15789	79 4·7	20031	35
26	38°25·8	172	40°16·5	1878	44°26·5	5345	51°42·2	10301	63°10·2	15878	79°23·0	20074	34
27	26·6	186	19·4	1921	32·1	5417	51·4	10393	24·1	15966	41·0	20117	33
28	27·5	200	22·4	1965	37·7	5489	52 0·7	10484	38·1	16054	59·3	20158	32
29	28·4	214	25·4	2010	43·4	5562	10·0	10576	52·2	16142	80 17·6	20198	31
30	29·4	229	28·4	2055	49·1	5635	19·5	10669	64 6·4	16230	35·9	20238	30
31	38°30·4	245	40°31·5	2101	44°54·9	5708	52°28·9	10761	64°20·5	16317	80°54·3	20276	29
32	31·4	261	34·6	2147	45 0·7	5782	38·5	10853	35·0	16403	81 12·7	20312	28
33	32·4	278	37·8	2194	6·6	5856	48·1	10946	49·5	16489	31·2	20347	27
34	33·5	295	41·0	2241	12·5	5931	57·8	11039	65 4·0	16575	49·7	20381	26
35	34·6	312	44·2	2289	18·5	6006	53 7·6	11132	18·6	16660	82 8·2	20414	25
36	38°35·7	330	40°47·5	2337	45°24·6	6081	53°17·5	11225	65°33·2	16745	82°26·8	20446	24
37	36·9	349	50·9	2386	30·7	6157	27·4	11318	48·0	16830	45·4	20477	23
38	38·1	368	54·2	2435	36·8	6233	37·4	11412	66 2·8	16914	83 4·1	20506	22
39	39·4	388	57·6	2484	43·0	6310	47·5	11505	17·8	16997	22·8	20534	21
40	40·6	408	41 1·1	2534	49·3	6387	57·7	11599	32·8	17080	41·5	20560	20
41	38°41·9	428	41° 4·6	2585	45°55·6	6464	54° 7·9	11693	66°47·9	17162	84° 0·2	20586	19
42	43·3	449	8·1	2636	46 2·0	6542	18·2	11786	67 3·0	17243	19·0	20610	18
43	44·7	471	11·6	2687	8·4	6620	28·6	11880	18·3	17324	37·8	20633	17
44	46·1	493	15·2	2739	14·9	6699	39·0	11974	33·6	17405	56·6	20655	16
45	47·5	516	18·9	2792	21·4	6778	49·6	12068	49·0	17485	85 15·5	20676	15
46	38°49·0	539	41°22·6	2845	46°28·0	6857	55° 0·2	12162	68° 4·5	17564	85°34·3	20695	14
47	50·5	563	26·3	2898	34·7	6936	10·9	12257	20·1	17643	53·2	20712	13
48	52·0	587	30·1	2952	41·4	7017	21·6	12351	35·7	17721	86 12·1	20729	12
49	53·6	611	33·9	3007	48·2	7098	32·5	12445	51·4	17798	31·0	20744	11
50	55·2	637	37·8	3062	55·0	7178	43·4	12540	69 7·2	17875	50·0	20758	10
51	38°56·8	662	41°41·7	3117	47° 1·9	7259	55°54·4	12634	69°23·1	17951	87° 8·9	20771	9
52	58·5	689	45·6	3173	8·8	7341	56 5·5	12728	39·1	18026	27·9	20782	8
53	39 0·2	715	49·6	3229	15·8	7423	16·6	12823	55·1	18101	46·9	20792	7
54	2·0	742	53·6	3286	22·9	7505	27·8	12917	70 11·2	18175	88 5·9	20800	6
55	3·8	770	57·7	3343	30·0	7588	39·2	13011	27·4	18248	24·9	20808	5
56	39° 5·6	798	42° 1·8	3401	47°37·2	7671	56°50·5	13106	70°43·7	18320	88°43·9	20814	4
57	7·4	827	5·9	3459	44·5	7754	57 2·0	13200	71 0·0	18392	89 2·9	20818	3
58	9·3	856	10·1	3517	51·8	7838	13·6	13294	16·4	18463	21·9	20822	2
59	11·2	886	14·4	3576	59·1	7922	25·2	13389	32·9	18533	41·0	20824	1
60	13·2	916	18·7	3636	48 6·5	8006	36·9	13483	49·5	18602	90 0·0	20824	0
	11 II	10 II	9 II	8 II	7 II	6 II	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	38°30.0	0 39°28.3	910 42°34.0	3609 48°21.9	7940 57°50.8	13354 71°58.6	18400 60
1	30.0	0 30.3	940 38.4	3668 29.3	8024 58 2.6	13447 72 15.1	18467 59
2	30.1	1 32.3	971 42.8	3728 36.9	8108 14.4	13540 31.7	18534 58
3	30.1	2 34.3	1002 47.2	3789 44.5	8192 26.3	13633 48.3	18600 57
4	30.3	4 36.4	1034 51.6	3850 52.1	8277 38.3	13725 73 5.0	18664 56
5	30.4	6 38.6	1067 56.1	3911 59.9	8362 50.4	13818 21.8	18728 55
6	38°30.6	9 39°40.7	1100 43° 0.7	3973 49° 7.7	8447 59° 2.5	13910 73°38.6	18791 54
7	30.8	12 42.9	1133 5.3	4036 15.5	8533 14.7	14003 55.6	18853 53
8	31.0	16 45.2	1168 10.0	4099 23.4	8619 27.0	14095 74 12.5	18915 52
9	31.3	21 47.5	1203 14.7	4162 31.4	8705 39.4	14187 29.6	18975 51
10	31.6	25 49.8	1238 19.4	4225 39.5	8792 51.9	14279 46.7	19034 50
11	38°31.9	31 39°52.1	1273 43°24.2	4289 49°47.6	8878 60° 4.5	14371 75° 3.9	19093 49
12	32.3	37 54.5	1308 29.1	4353 55.7	8965 17.1	14462 21.1	19150 48
13	32.7	42 56.9	1345 34.0	4418 50 4.0	9053 29.8	14553 38.4	19207 47
14	33.1	49 59.4	1382 38.9	4484 12.3	9140 42.6	14644 55.8	19263 46
15	33.6	57 40 1.9	1420 43.9	4550 20.7	9228 55.5	14735 76 13.2	19317 45
16	38°34.1	64 40° 4.4	1458 43°48.9	4616 50°29.1	9317 61° 8.4	14825 76°30.6	19370 44
17	34.6	73 6.9	1496 54.0	4683 37.6	9405 21.5	14916 48.2	19423 43
18	35.2	82 9.5	1535 59.1	4751 46.2	9493 34.6	15006 77 5.8	19475 42
19	35.8	91 12.2	1574 44 4.3	4819 54.8	9582 47.8	15096 23.4	19525 41
20	36.4	102 14.8	1614 9.5	4887 51 3.5	9671 62 1.1	15186 41.1	19574 40
21	38°37.0	111 40°17.5	1655 44°14.8	4955 51°12.3	9761 62°14.5	15275 77°58.9	19622 39
22	37.7	122 20.3	1696 20.1	5023 21.1	9850 27.9	15364 78 16.7	19670 38
23	38.4	134 23.1	1737 25.5	5092 30.0	9940 41.4	15453 34.5	19716 37
24	39.2	146 25.9	1779 30.9	5162 39.0	10030 55.1	15541 52.4	19761 36
25	40.0	158 28.8	1822 36.4	5233 48.1	10120 63 8.8	15629 79 10.4	19805 35
26	38°40.8	171 40°31.7	1865 44°41.9	5304 51°57.2	10210 63°22.5	15717 79°28.4	19848 34
27	41.7	185 34.6	1908 47.5	5375 52 6.4	10301 36.4	15804 46.4	19890 33
28	42.5	198 37.6	1952 53.1	5446 15.6	10392 50.3	15891 80 4.5	19931 32
29	43.5	213 40.6	1996 58.8	5518 25.0	10483 64 4.4	15978 22.7	19970 31
30	44.4	228 43.7	2041 45 4.5	5590 34.4	10574 18.5	16064 40.9	20008 30
31	38°45.4	244 40°46.8	2086 45°10.3	5663 52°43.8	10665 64°32.7	16150 80°59.1	20045 29
32	46.4	259 49.9	2131 16.1	5736 53.4	10756 46.9	16235 81 17.4	20082 28
33	47.4	275 53.1	2178 22.0	5810 53 3.0	10848 65 1.3	16320 35.7	20116 27
34	48.5	293 56.3	2225 27.9	5884 12.7	10940 15.7	16404 54.0	20150 26
35	49.6	310 59.5	2272 33.9	5958 22.4	11032 30.2	16488 82 12.4	20182 25
36	38°50.8	328 41° 2.8	2320 45°40.0	6032 53°32.3	11124 65°44.8	16572 82°30.8	20213 24
37	52.0	346 6.1	2368 46.1	6107 42.2	11216 59.5	16655 49.3	20243 23
38	53.2	365 9.5	2417 52.2	6183 52.1	11308 66 14.2	16738 83 7.8	20272 22
39	54.4	385 12.9	2466 58.4	6259 54 2.2	11401 29.1	16820 26.3	20300 21
40	55.7	405 16.3	2516 46 4.7	6336 12.3	11493 44.0	16901 44.8	20326 20
41	38°57.0	425 41°19.8	2566 46°11.0	6413 54°22.5	11586 66°59.0	16982 84° 3.4	20351 19
42	58.3	446 23.4	2617 17.4	6490 32.8	11678 67 14.1	17062 22.0	20375 18
43	59.7	468 26.9	2668 23.8	6567 43.1	11771 29.2	17142 40.6	20398 17
44	39 1.1	490 30.5	2719 30.3	6645 53.6	11864 44.4	17222 59.3	20419 16
45	2.6	512 34.2	2771 36.8	6723 55 4.1	11957 59.8	17301 85 18.0	20439 15
46	39° 4.0	535 41°37.9	2823 46°43.4	6802 55°14.6	12050 68°15.2	17379 85°36.7	20458 14
47	5.5	558 41.6	2876 50.1	6881 25.3	12143 30.6	17456 55.4	20475 13
48	7.1	583 45.4	2930 56.8	6960 36.0	12236 46.2	17533 86 14.1	20492 12
49	8.7	607 49.2	2984 47 3.6	7040 46.8	12330 69 1.8	17609 32.9	20506 11
50	10.3	632 53.1	3039 10.4	7120 57.7	12423 17.5	17684 51.7	20520 10
51	39°11.9	658 41°57.0	3094 47°17.3	7200 56° 8.7	12516 69°33.3	17759 87°10.5	20532 9
52	13.6	684 42 0.9	3149 24.2	7281 19.7	12609 49.1	17834 29.3	20543 8
53	15.3	710 4.9	3205 31.2	7362 30.9	12702 70 5.0	17907 48.1	20553 7
54	17.1	737 8.9	3261 38.3	7443 42.0	12795 21.0	17980 88 6.9	20562 6
55	18.9	764 13.0	3318 45.4	7525 53.3	12889 37.1	18052 25.7	20569 5
56	39°20.7	793 42°17.1	3375 47°52.6	7607 57° 4.6	12982 70°53.3	18123 88°44.6	20574 4
57	22.5	821 21.3	3433 59.8	7690 16.1	13075 71 9.5	18193 89 3.4	20579 3
58	24.4	850 25.5	3491 48 7.1	7773 27.6	13169 25.8	18262 22.3	20582 2
59	26.3	880 29.7	3550 14.5	7856 39.2	13262 42.1	18331 41.1	20584 1
60	28.3	910 34.0	3609 21.9	7940 50.8	13354 58.6	18400 90 0.0	20585 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	38°45-0	0	39°43-4	903	42°49-4	3582	48°37-1	7873	58° 4-6	13227	72° 7-6	18200	60
1	45-0	0	45-4	934	53-7	3641	44-6	7956	16-4	13319	24-0	18266	59
2	45-1	1	47-4	964	58-1	3700	52-1	8039	28-2	13410	40-4	18331	58
3	45-1	2	49-5	996	43 2-5	3760	59-7	8123	40-0	13502	56-9	18396	57
4	45-3	4	51-6	1028	7-0	3821	49 7-4	8207	51-9	13593	73 13-5	18460	56
5	45-4	6	53-7	1060	11-5	3882	15-1	8291	59 3-9	13685	30-2	18522	55
6	38°45-6	9	39°55-9	1092	43°16-1	3943	49°22-9	8375	59°16-0	13776	73°47-0	18584	54
7	45-8	12	58-1	1126	20-7	4005	30-7	8460	28-2	13867	74 3-7	18645	53
8	46-0	16	40 0-3	1159	25-3	4067	38-6	8545	40-5	13958	20-6	18706	52
9	46-3	20	2-6	1194	30-0	4130	46-6	8631	52-8	14048	37-5	18765	51
10	46-6	25	4-9	1228	34-8	4193	54-6	8716	60 5-2	14139	54-4	18823	50
11	38°46-9	30	40° 7-2	1264	43°39-6	4256	50° 2-7	8802	60°17-7	14229	75°11-5	18881	49
12	47-3	36	9-6	1299	44-4	4320	10-9	8888	30-3	14320	28-6	18937	48
13	47-7	42	12-1	1336	49-3	4385	19-1	8975	42-9	14410	45-8	18993	47
14	48-1	49	14-5	1372	54-3	4450	27-4	9061	55-7	14499	76 3-0	19048	46
15	48-6	56	17-0	1409	59-2	4515	35-7	9148	61 8-5	14589	20-3	19101	45
16	38°49-1	64	40°19-5	1447	44° 4-3	4581	50°44-2	9236	61°21-4	14679	76°37-6	19154	44
17	49-6	73	22-1	1485	9-4	4647	52-7	9323	34-4	14768	55-0	19206	43
18	50-2	82	24-7	1524	14-5	4714	51 1-2	9411	47-4	14857	77 12-4	19256	42
19	50-8	91	27-3	1563	19-7	4781	9-8	9499	62 0-6	14945	29-9	19306	41
20	51-4	101	30-0	1603	24-9	4848	18-5	9587	13-8	15034	47-5	19354	40
21	38°52-1	111	40°32-7	1643	44°30-2	4916	51°27-3	9675	62°27-1	15122	78° 5-1	19402	39
22	52-7	122	35-5	1683	35-5	4984	36-1	9764	40-5	15209	22-8	19449	38
23	53-5	133	38-3	1725	40-9	5053	45-0	9852	53-9	15297	40-5	19494	37
24	54-2	145	41-1	1766	46-3	5122	54-0	9941	63 7-5	15384	58-2	19538	36
25	55-0	157	44-0	1808	51-8	5192	52 3-0	10031	21-1	15471	79 16-0	19581	35
26	38°55-8	170	40°46-9	1851	44°57-3	5262	52°12-1	10120	63°34-8	15557	79°33-9	19623	34
27	56-7	183	49-8	1894	45 2-9	5332	21-3	10210	48-6	15644	51-8	19665	33
28	57-6	197	52-8	1937	8-5	5403	30-5	10299	64 2-5	15729	80 9-7	19704	32
29	58-5	211	55-8	1981	14-2	5475	39-8	10389	16-4	15814	27-7	19743	31
30	59-4	226	58-9	2026	19-9	5546	49-2	10479	30-4	15899	45-8	19781	30
31	39° 0-4	242	41° 2-0	2071	45°25-7	5618	52°58-6	10570	64°44-6	15984	81° 3-8	19818	29
32	1-4	257	5-1	2116	31-5	5691	53 8-1	10660	58-7	16068	21-9	19853	28
33	2-5	274	8-3	2162	37-4	5764	17-7	10751	65 13-0	16152	40-1	19887	27
34	3-6	290	11-5	2209	43-3	5837	27-4	10841	27-4	16235	58-3	19920	26
35	4-7	308	14-7	2256	49-3	5910	37-1	10932	41-8	16318	82 16-5	19952	25
36	39° 5-8	326	41°18-0	2303	45°55-4	5985	53°46-9	11023	65°56-3	16400	82°34-8	19983	24
37	7-0	344	21-4	2351	46 1-5	6059	56-8	11114	66 10-9	16482	53-1	20012	23
38	8-2	363	24-7	2399	7-6	6134	54 6-8	11206	25-6	16563	83 11-4	20040	22
39	9-4	382	28-1	2448	13-8	6209	16-8	11297	40-3	16644	29-7	20068	21
40	10-7	402	31-6	2497	20-1	6285	26-9	11388	55-1	16724	48-1	20093	20
41	39°12-0	422	41°35-1	2547	46°26-4	6361	54°37-1	11480	67°10-0	16804	84° 6-5	20118	19
42	13-4	443	38-6	2597	32-7	6437	47-3	11572	25-0	16883	25-0	20141	18
43	14-8	464	42-2	2648	39-2	6514	57-6	11663	40-1	16962	43-5	20164	17
44	16-2	486	45-8	2699	45-7	6591	55 8-0	11755	55-2	17040	85 1-9	20184	16
45	17-6	509	49-5	2751	52-2	6668	18-5	11847	68 10-4	17118	20-5	20204	15
46	39°19-1	531	41°53-2	2803	46°58-8	6746	55°29-0	11939	68°25-7	17195	85°39-0	20223	14
47	20-6	555	56-9	2855	47 5-4	6825	39-6	12031	41-1	17271	57-6	20240	13
48	22-2	579	42 0-7	2908	12-1	6903	50-3	12123	56-5	17346	86 16-1	20256	12
49	23-8	603	4-5	2962	18-9	6982	56 1-1	12215	69 12-0	17421	34-7	20270	11
50	25-4	628	8-4	3016	25-7	7061	11-9	12307	27-6	17495	53-3	20284	10
51	39°27-0	653	42°12-3	3071	47°32-6	7141	56°22-9	12399	69°43-3	17569	87°12-0	20296	9
52	28-7	679	16-2	3126	39-5	7221	33-9	12491	59-0	17642	30-6	20307	8
53	30-4	705	20-2	3181	46-5	7301	45-0	12583	70 14-8	17714	49-3	20317	7
54	32-2	732	24-2	3237	53-6	7382	56-1	12675	30-7	17786	88 7-9	20325	6
55	34-0	759	28-3	3293	48 0-7	7463	57 7-3	12767	46-7	17857	26-6	20332	5
56	39°35-8	787	42°32-4	3350	48° 7-8	7544	57°18-6	12859	71° 2-7	17927	88°45-3	20338	4
57	37-6	815	36-6	3407	15-1	7626	30-0	12951	18-8	17996	89 3-9	20342	3
58	39-5	844	40-8	3465	22-4	7708	41-5	13043	35-0	18065	22-6	20345	2
59	41-4	873	45-1	3523	29-7	7790	53-0	13135	51-3	18133	41-3	20347	1
60	43-4	903	49-4	3582	37-1	7873	58 4-6	13227	72 7-6	18200	90 0-0	20348	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H						
0	39° 0' 0	0 39° 58' 5	897	43° 4' 7	3554	48° 52' 3	7806	58° 18' 4	13099	72° 16' 5	18001	60
1	0' 0	0 40 0' 5	927	9' 0	3613	59' 8	7888	30' 1	13190	32' 8	18066	59
2	0' 1	1 2' 5	958	13' 4	3672	49 7' 3	7971	41' 8	13281	49' 1	18131	58
3	0' 1	2 4' 6	989	17' 8	3731	14' 9	8054	53' 6	13371	73 5' 5	18194	57
4	0' 3	4 6' 7	1021	22' 3	3791	22' 6	8137	59 5' 5	13461	22' 0	18257	56
5	0' 4	6 8' 8	1052	26' 8	3852	30' 3	8220	17' 5	13551	38' 5	18318	55
6	39° 0' 6	9 40° 11' 0	1084	43° 31' 4	3913	49° 38' 0	8304	59° 29' 5	13641	73° 55' 1	18379	54
7	0' 8	12 13' 2	1117	36' 0	3974	45' 9	8388	41' 6	13731	74 11' 8	18439	53
8	1' 0	16 15' 4	1151	40' 7	4036	53' 8	8472	53' 8	13820	28' 5	18498	52
9	1' 3	20 17' 7	1185	45' 4	4098	50 1' 7	8556	60 6' 1	13910	45' 3	18557	51
10	1' 6	25 20' 0	1220	50' 1	4160	9' 7	8641	18' 5	14000	75 2' 1	18614	50
11	39° 1' 9	30 40° 22' 4	1255	43° 54' 9	4223	50° 17' 8	8726	60° 30' 9	14089	75° 19' 0	18671	49
12	2' 3	36 24' 8	1290	59' 8	4286	26' 0	8811	43' 4	14178	36' 0	18726	48
13	2' 7	42 27' 2	1325	44 4' 7	4350	34' 2	8897	56' 0	14266	53' 1	18781	47
14	3' 1	49 29' 7	1362	9' 6	4415	42' 5	8983	61 8' 7	14355	76 10' 1	18835	46
15	3' 6	56 32' 2	1399	14' 6	4480	50' 8	9069	21' 5	14443	27' 3	18888	45
16	39° 4' 1	64 40° 34' 7	1436	44° 19' 6	4545	50° 59' 2	9155	61° 34' 3	14532	76° 44' 5	18940	44
17	4' 6	72 37' 3	1474	24' 7	4610	51 7' 7	9242	47' 2	14620	77 1' 7	18990	43
18	5' 2	81 39' 9	1512	29' 8	4676	16' 2	9329	62 0' 2	14708	19' 0	19040	42
19	5' 8	90 42' 5	1551	35' 0	4743	24' 8	9416	13' 3	14795	36' 4	19089	41
20	6' 4	100 45' 2	1591	40' 2	4810	33' 5	9503	26' 4	14882	53' 8	19136	40
21	39° 7' 1	110 40° 47' 9	1631	44° 45' 5	4877	51° 42' 2	9590	62° 39' 7	14969	78° 11' 3	19183	39
22	7' 8	121 50' 7	1671	50' 8	4945	51' 0	9678	53' 0	15055	28' 8	19229	38
23	8' 5	132 53' 5	1712	56' 2	5013	59' 9	9765	63 6' 4	15142	46' 4	19274	37
24	9' 2	144 56' 3	1753	45 1' 6	5082	52 8' 9	9853	19' 8	15228	79 4' 0	19317	36
25	10' 0	156 59' 2	1795	7' 1	5151	17' 9	9941	33' 4	15313	21' 6	19360	35
26	39° 10' 8	169 41° 2' 1	1837	45° 12' 6	5220	52° 26' 9	10030	63° 47' 0	15399	79° 39' 3	19402	34
27	11' 7	182 5' 0	1880	18' 2	5290	36' 1	10118	64 0' 7	15483	57' 1	19442	33
28	12' 6	196 8' 0	1923	23' 8	5360	45' 3	10207	14' 5	15568	80 14' 9	19481	32
29	13' 5	210 11' 0	1967	29' 5	5431	54' 6	10296	28' 4	15652	32' 7	19519	31
30	14' 5	224 14' 1	2011	35' 2	5502	53 3' 9	10385	42' 3	15735	50' 6	19556	30
31	39° 15' 5	240 41° 17' 2	2056	45° 41' 0	5573	53° 13' 4	10474	64° 56' 4	15818	81° 8' 5	19592	29
32	16' 5	256 20' 3	2101	46' 8	5645	22' 9	10564	65 10' 5	15901	26' 5	19626	28
33	17' 5	272 23' 5	2147	52' 7	5717	32' 4	10654	24' 7	15984	44' 5	19660	27
34	18' 6	288 26' 7	2193	58' 7	5790	42' 1	10743	38' 9	16067	82 2' 5	19692	26
35	19' 7	306 30' 0	2239	46 4' 7	5863	51' 8	10833	53' 3	16149	20' 6	19724	25
36	39° 20' 9	323 41° 33' 3	2286	46° 10' 7	5937	54° 1' 5	10923	66° 7' 7	16230	82° 38' 7	19754	24
37	22' 0	342 36' 6	2333	16' 8	6010	11' 4	11013	22' 2	16310	56' 8	19783	23
38	23' 2	360 40' 0	2381	22' 9	6084	21' 3	11103	36' 8	16390	83 15' 0	19811	22
39	24' 5	379 43' 4	2430	29' 1	6159	31' 3	11193	51' 4	16469	33' 2	19838	21
40	25' 8	399 46' 8	2479	35' 4	6234	41' 4	11284	67 6' 2	16548	51' 4	19863	20
41	39° 27' 1	419 41° 50' 3	2528	46° 41' 7	6309	54° 51' 5	11374	67° 21' 0	16627	84° 9' 7	19887	19
42	28' 4	440 53' 9	2578	48' 1	6385	55 1' 7	11464	35' 9	16705	28' 0	19910	18
43	29' 8	461 57' 5	2628	54' 5	6461	12' 0	11555	50' 8	16782	46' 3	19932	17
44	31' 2	483 42 1' 1	2678	47 1' 0	6537	22' 4	11646	68 5' 9	16859	85 4' 6	19953	16
45	32' 7	505 4' 7	2730	7' 5	6614	32' 8	11737	21' 0	16936	22' 9	19972	15
46	39° 34' 2	528 42° 8' 4	2782	47° 14' 1	6691	55° 43' 3	11827	68° 36' 2	17011	85° 41' 3	19990	14
47	35' 7	551 12' 2	2834	20' 7	6768	53' 9	11918	51' 4	17086	59' 7	20007	13
48	37' 2	575 16' 0	2887	27' 4	6846	56 4' 6	12009	69 6' 8	17161	86 18' 1	20022	12
49	38' 8	599 19' 8	2940	34' 2	6924	15' 3	12100	22' 2	17235	36' 5	20037	11
50	40' 4	623 23' 6	2993	41' 0	7002	26' 1	12191	37' 7	17308	55' 0	20050	10
51	39° 42' 1	648 42° 27' 5	3047	47° 47' 9	7082	56° 37' 0	12282	69° 53' 3	17380	87° 13' 5	20062	9
52	43' 8	674 31' 5	3102	54' 8	7161	48' 0	12373	70 8' 9	17452	31' 9	20072	8
53	45' 5	700 35' 5	3157	48 1' 8	7240	59' 0	12464	24' 6	17523	50' 4	20082	7
54	47' 2	726 39' 5	3212	8' 8	7320	57 10' 1	12555	40' 4	17594	88 8' 9	20090	6
55	49' 0	754 43' 6	3268	15' 9	7400	21' 3	12646	56' 2	17663	27' 4	20097	5
56	39° 50' 8	781 42° 47' 7	3324	48° 23' 1	7481	57° 32' 6	12736	71° 12' 1	17732	88° 45' 9	20103	4
57	52' 7	810 51' 9	3381	30' 3	7562	43' 9	12827	28' 1	17801	89 4' 4	20107	3
58	54' 6	839 56' 1	3438	37' 6	7643	55' 3	12918	44' 2	17868	23' 0	20110	2
59	56' 5	867 43 0' 4	3496	44' 9	7725	58 6' 8	13009	72 0' 3	17935	41' 5	20112	1
60	58' 5	897 4' 7	3554	52' 3	7806	18' 4	13099	16' 5	18001	90 0' 0	20113	0
	11 H	10 H	9 H	8 H	7 H	6 H	m					

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	39°15.0	0	40°13.6	890	43°20.0	3527	49° 7.5	7740	58°32.1	12972	72°25.4	17804	60
1	15.0	0	15.6	920	24.3	3585	15.0	7822	43.7	13062	41.5	17868	59
2	15.1	1	17.6	950	28.7	3644	22.5	7903	55.4	13151	57.7	17931	58
3	15.1	2	19.7	981	33.1	3703	30.1	7985	59 7.1	13241	73 14.0	17993	57
4	15.3	4	21.8	1013	37.6	3762	37.7	8067	19.0	13329	30.4	18055	56
5	15.4	6	23.9	1044	42.1	3822	45.4	8150	30.9	13419	46.8	18116	55
6	39°15.6	9	40°26.1	1077	43°46.7	3882	49°53.1	8233	59°42.9	13507	74° 3.2	18176	54
7	15.8	12	28.3	1109	51.3	3943	50 0.9	8316	55.0	13596	19.8	18235	53
8	16.0	16	30.6	1143	56.0	4004	8.8	8399	60 7.1	13685	36.4	18293	52
9	16.3	20	32.9	1176	44 0.7	4066	16.8	8482	19.3	13773	53.0	18351	51
10	16.6	25	35.2	1211	5.4	4128	24.8	8566	31.6	13861	75 9.8	18407	50
11	39°16.9	30	40°37.5	1245	44°10.2	4190	50°32.9	8650	60°44.0	13949	75°26.5	18463	49
12	17.3	36	39.9	1281	15.1	4253	41.0	8735	56.4	14037	43.4	18517	48
13	17.7	42	42.3	1316	20.0	4317	49.2	8819	61 9.0	14125	76 0.3	18571	47
14	18.1	49	44.8	1352	24.9	4381	57.5	8904	21.6	14212	17.2	18624	46
15	18.6	56	47.3	1389	29.9	4445	51 5.8	8989	34.3	14299	34.2	18676	45
16	39°19.1	64	40°49.8	1426	44°34.9	4509	51°14.2	9075	61°47.1	14386	76°51.3	18727	44
17	19.6	72	52.4	1464	40.0	4574	22.6	9160	59.9	14473	77 8.4	18777	43
18	20.2	80	55.0	1502	45.1	4640	31.2	9246	62 12.9	14559	25.6	18826	42
19	20.8	90	57.7	1540	50.3	4706	39.8	9332	25.9	14646	42.8	18874	41
20	21.4	99	41 0.4	1579	55.5	4772	48.4	9418	39.0	14732	78 0.1	18921	40
21	39°22.1	109	41° 3.1	1619	45° 0.8	4839	51°57.1	9505	62°52.1	14817	78°17.4	18967	39
22	22.8	120	5.8	1659	6.2	4906	52 5.9	9591	63 5.4	14902	34.8	19011	38
23	23.5	131	8.6	1699	11.6	4974	14.8	9678	18.7	14987	52.2	19055	37
24	24.3	143	11.5	1740	17.0	5042	23.7	9765	32.1	15072	79 9.7	19098	36
25	25.1	155	14.3	1782	22.4	5110	32.7	9852	45.6	15157	27.2	19140	35
26	39°25.9	168	41°17.3	1824	45°27.9	5179	52°41.7	9940	63°59.1	15241	79°44.7	19181	34
27	26.7	181	20.2	1866	33.5	5248	50.8	10027	64 12.8	15324	80 2.3	19220	33
28	27.6	194	23.2	1909	39.1	5317	53 0.0	10115	26.5	15407	20.0	19259	32
29	28.5	208	26.2	1952	44.8	5387	9.3	10203	40.3	15490	37.7	19296	31
30	29.5	223	29.3	1996	50.5	5458	18.6	10291	54.1	15573	55.4	19333	30
31	39°30.5	238	41°32.4	2040	45°56.3	5528	53°28.0	10379	65° 8.1	15655	81°13.2	19368	29
32	31.5	254	35.5	2085	46 2.2	5600	37.5	10468	22.1	15737	31.0	19402	28
33	32.5	270	38.7	2130	8.0	5671	47.1	10556	36.2	15818	48.8	19435	27
34	33.6	286	41.9	2176	14.0	5743	56.7	10645	50.4	15899	82 6.7	19467	26
35	34.7	304	45.2	2222	20.0	5816	54 6.4	10734	66 4.7	15979	24.6	19498	25
36	39°35.9	321	41°48.5	2269	46°26.0	5888	54°16.1	10823	66°19.0	16059	82°42.6	19527	24
37	37.1	339	51.8	2316	32.1	5961	25.9	10912	33.4	16138	83 0.6	19556	23
38	38.3	358	55.2	2363	38.2	6035	35.8	11001	47.9	16217	18.6	19583	22
39	39.5	377	58.6	2411	44.4	6108	45.8	11090	67 2.5	16296	36.6	19609	21
40	40.8	396	42 2.1	2460	50.7	6183	55.8	11179	17.1	16374	54.6	19634	20
41	39°42.1	416	42° 5.6	2509	46°57.0	6257	55° 5.9	11269	67°31.8	16451	84°12.8	19658	19
42	43.5	437	9.1	2558	47 3.4	6332	16.1	11358	46.6	16528	30.9	19680	18
43	44.9	458	12.7	2608	9.8	6408	26.4	11448	68 1.5	16604	49.0	19702	17
44	46.3	479	16.3	2659	16.2	6483	36.7	11537	16.4	16680	85 7.2	19722	16
45	47.7	501	20.0	2710	22.8	6559	47.1	11627	31.4	16755	25.4	19741	15
46	39°49.2	524	42°23.7	2761	47°29.4	6635	55°57.6	11716	68°46.5	16829	85°43.6	19759	14
47	50.7	547	27.4	2813	36.0	6712	56 8.1	11806	69 1.7	16903	86 1.8	19776	13
48	52.3	570	31.2	2865	42.7	6789	18.7	11896	16.9	16977	20.1	19791	12
49	53.9	594	35.0	2918	49.4	6867	29.4	11986	32.2	17050	38.4	19805	11
50	55.5	619	38.9	2971	56.2	6945	40.2	12076	47.6	17122	56.6	19818	10
51	39°57.1	644	42°42.8	3024	48° 3.1	7023	56°51.1	12166	70° 3.1	17193	87°14.9	19830	9
52	58.8	669	46.8	3078	10.0	7101	57 2.0	12255	18.6	17263	33.2	19840	8
53	40 0.6	695	50.8	3133	17.0	7180	13.0	12345	34.2	17333	51.6	19850	7
54	2.3	721	54.8	3188	24.1	7259	24.0	12435	49.9	17403	88 9.9	19858	6
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57	7.8	804	7.2	3355	45.5	7498	57.7	12704	37.3	17606	89 4.9	19874	3
58	9.7	832	11.4	3412	52.8	7579	58 9.1	12794	53.3	17673	23.3	19877	2
59	11.6	861	15.7	3469	49 0.1	7659	20.6	12883	72 9.3	17739	41.6	19879	1
60	13.6	890	20.0	3527	7.5	7740	32.1	12972	25.4	17804	90 0.0	19880	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 II	1 II	2 II	3 II	4 II	5 II	
0	39°30·0	0 40°28·7	884 43°35·2	3500 49°22·6	7674 58°45·7	12846 72°34·1	17608 60
1	30·0	0 30·7	914 39·6	3558 30·1	7754 57·2	12934 50·2	17671 59
2	30·1	1 32·7	944 44·0	3616 37·6	7835 59 8·9	13023 73 6·3	17733 58
3	30·1	2 34·8	974 48·4	3674 45·2	7916 20·6	13111 22·4	17794 57
4	30·3	4 36·9	1005 52·9	3733 52·8	7997 32·4	13199 38·7	17855 56
5	30·4	6 39·0	1037 57·4	3792 50 0·5	8079 44·2	13286 55·0	17915 55
6	39°30·6	9 40°41·2	1069 44° 2·0	3852 50° 8·2	8161 59°56·2	13374 74°11·3	17974 54
7	30·8	12 43·4	1101 6·6	3912 16·0	8243 60 8·2	13462 27·7	18032 53
8	31·0	16 45·7	1134 11·3	3973 23·9	8326 20·3	13549 44·2	18089 52
9	31·3	20 48·0	1168 16·0	4034 31·8	8409 32·5	13636 75 0·7	18146 51
10	31·6	25 50·3	1202 20·7	4096 39·8	8492 44·7	13723 17·3	18202 50
11	39°31·9	30 40°52·6	1236 44°25·5	4158 50°47·9	8575 60°57·0	13810 75°33·9	18256 49
12	32·3	36 55·0	1271 30·4	4220 56·0	8658 61 9·4	13897 50·6	18310 48
13	32·7	41 57·5	1306 35·3	4282 51 4·2	8742 21·9	13983 76 7·4	18363 47
14	33·2	48 59·9	1342 40·2	4345 12·4	8826 34·4	14069 24·2	18415 46
15	33·6	55 41 2·4	1379 45·2	4409 20·7	8910 47·1	14155 41·1	18466 45
16	39°34·1	63 41° 5·0	1416 44°50·2	4473 51°29·1	8994 61°59·8	14241 76°58·0	18516 44
17	34·6	71 7·6	1453 55·3	4538 37·5	9079 62 12·6	14327 77 15·0	18565 43
18	35·2	80 10·2	1491 45 0·4	4603 46·0	9164 25·4	14412 32·0	18613 42
19	35·8	89 12·8	1529 5·6	4668 54·6	9249 38·4	14497 49·1	18660 41
20	36·4	98 15·5	1568 10·8	4734 52 3·3	9334 51·4	14582 78 6·3	18706 40
21	39°37·1	109 41°18·2	1607 45°16·1	4800 52°11·9	9420 63° 4·5	14666 78°23·5	18751 39
22	37·8	119 21·0	1647 21·4	4867 20·7	9506 17·7	14750 40·7	18796 38
23	38·5	130 23·8	1687 26·8	4934 29·5	9592 30·9	14834 58·0	18839 37
24	39·3	142 26·6	1727 32·2	5001 38·5	9678 44·3	14918 79 15·3	18881 36
25	40·1	154 29·5	1768 37·7	5069 47·4	9764 57·7	15001 32·7	18922 35
26	39°40·9	167 41°32·4	1810 45°43·2	5137 52°56·5	9850 64°11·2	15084 79°50·1	18962 34
27	41·7	179 35·4	1852 48·8	5206 53 5·6	9937 24·7	15166 80 7·5	19001 33
28	42·6	193 38·4	1895 54·4	5275 14·7	10024 38·4	15248 25·0	19039 32
29	43·5	207 41·4	1938 46 0·1	5344 24·0	10111 52·1	15330 42·6	19076 31
30	44·5	221 44·5	1981 5·8	5414 33·3	10198 65 5·9	15411 81 0·2	19111 30
31	39°45·5	236 41°47·6	2025 46°11·6	5484 53°42·6	10285 65°19·7	15492 81°17·8	19146 29
32	46·5	252 50·7	2069 17·4	5554 52·1	10373 33·7	15573 35·4	19180 28
33	47·6	268 53·9	2114 23·3	5625 54 1·6	10460 47·7	15653 53·1	19212 27
34	48·7	284 57·1	2160 29·2	5696 11·2	10547 66 1·8	15732 82 10·8	19243 26
35	49·8	302 42 0·4	2206 35·2	5768 20·9	10635 16·0	15811 28·6	19274 25
36	39°50·9	319 42° 3·7	2252 46°41·3	5840 54°30·6	10723 66°30·2	15889 82°46·4	19303 24
37	52·1	337 7·0	2299 47·4	5912 40·4	10811 44·5	15968 83 4·2	19331 23
38	53·3	355 10·4	2346 53·5	5985 50·2	10899 58·9	16046 22·1	19358 22
39	54·6	374 13·8	2393 59·7	6058 55 0·2	10987 67 13·4	16123 40·0	19383 21
40	55·9	393 17·3	2441 47 5·9	6132 10·2	11075 28·0	16200 57·9	19408 20
41	39°57·2	413 42°20·8	2490 47°12·2	6206 55°20·3	11164 67°42·6	16276 84°15·8	19431 19
42	58·5	434 24·3	2539 18·6	6280 30·4	11252 57·3	16352 33·8	19453 18
43	59·9	455 27·9	2589 25·0	6354 40·6	11341 68 12·1	16427 51·8	19474 17
44	40 1·3	476 31·5	2639 31·5	6429 50·9	11429 26·9	16501 85 9·8	19494 16
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46	40° 4·3	520 42°38·9	2740 47°44·6	6581 56°11·7	11606 68°56·8	16649 85°45·9	19530 14
47	5·8	543 42·7	2791 51·2	6657 22·2	11695 69 11·9	16722 86 3·9	19547 13
48	7·4	566 46·5	2843 57·9	6733 32·8	11783 27·0	16794 22·0	19562 12
49	9·0	590 50·3	2895 48 4·7	6810 43·5	11872 42·2	16865 40·1	19575 11
50	10·6	614 54·2	2948 11·5	6887 54·2	11960 57·5	16936 58·3	19588 10
51	40°12·2	639 42°58·1	3001 48°18·3	6964 57° 5·0	12049 70°12·9	17007 87°16·4	19600 9
52	13·9	664 43 2·0	3054 25·2	7042 15·9	12138 28·3	17076 34·5	19611 8
53	15·6	690 6·0	3108 32·2	7120 26·9	12227 43·8	17145 52·7	19619 7
54	17·4	716 10·1	3163 39·2	7198 37·9	12316 59·4	17213 88 10·9	19627 6
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56	40°21·0	770 43°18·3	3274 48°53·5	7355 58° 0·2	12493 71°30·7	17348 88°47·2	19640 4
57	22·9	798 22·5	3330 49 0·7	7434 11·5	12581 46·5	17414 89 5·4	19643 3
58	24·8	826 26·7	3386 7·9	7514 22·8	12669 72 2·3	17479 23·6	19646 2
59	26·7	855 30·9	3442 15·3	7594 34·2	12758 18·2	17544 41·8	19648 1
60	28·7	884 35·2	3500 22·6	7674 45·7	12846 34·1	17608 90 0·0	19649 0
	11 II	10 II	9 II	8 II	7 II	6 II	m

m	0 II	1 II	2 II	3 II	4 II	5 II							
0	39°45-0	0	40°43-8	877	43°50-5	3472	49°37-7	7608	58°59-2	12721	72°42-8	17413	60
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2	45-1	1	47-8	937	59-2	3587	52-6	7768	22-3	12895	73 14-7	17536	58
3	45-1	2	49-9	967	44 3-6	3645	50 0-2	7848	33-9	12981	30-8	17597	57
4	45-3	4	52-0	998	8-1	3703	7-8	7928	45-7	13068	46-9	17656	56
5	45-4	6	54-1	1029	12-7	3762	15-5	8009	57-5	13155	74 3-1	17715	55
6	39°45-6	9	40°56-3	1061	44°17-3	3822	50°23-2	8090	60° 9-4	13241	74°19-3	17773	54
7	45-8	12	58-5	1093	21-9	3882	31-0	8171	21-3	13328	35-6	17831	53
8	46-0	16	41 0-8	1126	26-5	3942	38-9	8253	33-4	13414	51-9	17887	52
9	46-3	20	3-1	1159	31-2	4002	46-8	8335	45-5	13500	75 8-3	17943	51
10	46-6	24	5-4	1193	36-0	4063	54-8	8417	57-7	13586	24-8	17997	50
11	39°46-9	30	41° 7-8	1227	44°40-8	4125	51° 2-8	8499	61° 9-9	13672	75°41-3	18051	49
12	47-3	35	10-2	1262	45-6	4187	10-9	8582	22-3	13757	57-9	18104	48
13	47-7	41	12-6	1297	50-5	4249	19-1	8664	34-7	13842	76 14-5	18156	47
14	48-2	48	15-1	1332	55-5	4311	27-3	8748	47-2	13927	31-2	18207	46
15	48-6	55	17-6	1368	45 0-5	4374	35-6	8831	59-8	14012	47-9	18257	45
16	39°49-1	63	41°20-1	1405	45° 5-5	4438	51°44-0	8914	62°12-4	14097	77° 4-7	18306	44
17	49-6	71	22-7	1442	10-6	4502	52-4	8998	25-1	14181	21-6	18355	43
18	50-2	79	25-3	1480	15-7	4566	52 0-9	9082	37-9	14265	38-5	18402	42
19	50-8	88	28-0	1518	20-9	4631	9-4	9166	50-8	14349	55-4	18448	41
20	51-4	98	30-7	1556	26-1	4696	18-0	9250	63 3-8	14432	78 12-4	18493	40
21	39°52-1	108	41°33-4	1595	45°31-4	4762	52°26-7	9335	63°16-8	14516	78°29-4	18538	39
22	52-8	118	36-2	1634	36-7	4828	35-5	9420	29-9	14599	46-5	18581	38
23	53-5	129	39-0	1674	42-1	4894	44-3	9505	43-1	14681	79 3-7	18624	37
24	54-3	141	41-8	1714	47-5	4961	53-2	9590	56-3	14764	20-9	18665	36
25	55-1	153	44-7	1755	53-0	5028	53 2-1	9675	64 9-7	14846	38-1	18705	35
26	39°55-9	165	41°47-6	1796	45°58-5	5095	53°11-1	9761	64°23-1	14927	79°55-3	18745	34
27	56-8	178	50-5	1838	46 4-1	5163	20-2	9846	36-6	15008	80 12-7	18783	33
28	57-7	192	53-5	1880	9-7	5232	29-3	9932	50-1	15089	30-0	18820	32
29	58-6	205	56-6	1923	15-4	5300	38-5	10018	65 3-8	15170	47-4	18857	31
30	59-5	220	59-6	1966	21-1	5369	47-8	10104	17-5	15250	81 4-8	18892	30
31	40° 0-5	235	42° 2-7	2010	46°26-8	5439	53°57-2	10190	65°31-3	15330	81°22-3	18926	29
32	1-5	250	5-9	2054	32-7	5509	54 6-6	10277	45-1	15409	39-8	18959	28
33	2-6	266	9-1	2098	38-6	5579	16-1	10363	59-1	15488	57-4	18991	27
34	3-7	282	12-3	2143	44-5	5649	25-7	10450	66 13-1	15567	82 14-9	19022	26
35	4-8	299	15-6	2189	50-5	5720	35-3	10536	27-2	15645	32-5	19051	25
36	40° 6-0	316	42°18-9	2235	46°56-5	5792	54°45-0	10623	66°41-3	15722	82°50-2	19080	24
37	7-2	334	22-2	2281	47 2-6	5864	54-7	10710	55-6	15799	83 7-9	19107	23
38	8-4	353	25-6	2328	8-7	5936	55 4-6	10797	67 9-9	15876	25-6	19134	22
39	9-6	371	29-0	2375	14-9	6008	14-5	10884	24-3	15952	43-3	19159	21
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42	13-6	431	39-5	2520	33-8	6227	44-6	11146	68 7-9	16177	36-6	19228	18
43	15-0	451	43-1	2569	40-2	6301	54-8	11233	22-6	16251	54-5	19248	17
44	16-4	473	46-8	2618	46-7	6375	56 5-1	11321	37-3	16324	85 12-3	19268	16
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46	40°19-3	516	42°54-1	2719	47°59-8	6525	56°25-8	11496	69° 7-0	16469	85°48-1	19303	14
47	20-8	539	57-9	2770	48 6-4	6600	36-3	11583	22-0	16541	86 6-0	19319	13
48	22-4	562	43 1-7	2821	13-1	6676	46-8	11671	37-0	16612	24-0	19334	12
49	24-0	586	5-5	2873	19-8	6752	57-5	11759	52-1	16683	41-9	19348	11
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51	40°27-3	634	43°13-3	2978	48°33-5	6905	57°18-9	11934	70°22-6	16821	87°17-8	19372	9
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53	30-7	685	21-3	3085	47-4	7059	40-7	12109	53-3	16958	53-8	19391	7
54	32-5	711	25-3	3139	54-4	7136	51-7	12196	71 8-7	17025	88 11-8	19399	6
55	34-3	738	29-4	3193	49 1-5	7214	58 2-7	12284	24-2	17092	29-9	19405	5
56	40°36-1	765	43°33-5	3248	49° 8-6	7292	58°13-9	12371	71°39-8	17157	88°47-9	19410	4
57	38-0	792	37-7	3304	15-8	7371	25-1	12459	55-5	17222	89 5-9	19415	3
58	39-9	820	41-9	3359	23-0	7449	36-4	12546	72 11-2	17286	23-9	19418	2
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60	43-8	877	50-5	3472	37-7	7608	59-2	12721	42-8	17413	90 0-0	19420	0
	11 II	10 II	9 II	8 II	7 II	6 II	m						

m	0 II		1 H		2 H		3 H		4 H		5 H		
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1	0-0	0	41 0-9	900	10-1	3502	50 0-2	7620	24-1	12681	73 7-3	17281	59
2	0-1	1	2-9	930	14-5	3559	7-7	7699	35-6	12767	23-1	17341	58
3	0-1	2	5-0	960	18-9	3616	15-2	7779	47-2	12853	39-0	17401	57
4	0-3	4	7-1	990	23-3	3674	22-8	7859	58-9	12938	55-0	17459	56
5	0-4	6	9-3	1021	27-9	3733	30-5	7939	60 10-7	13024	74 11-1	17517	55
6	40° 0-6	9	41°11-4	1053	44°32-5	3792	50°38-2	8019	60°22-5	13109	74°27-2	17574	54
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	11 H	10 H	9 H	8 H	7 H	6 H	m						

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	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
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52	14-2	645 44 2-9	2960 25-6	6802 10-9	11673 71 6-2	16339 39-6	18709 8
53	15-9	669 6-9	3012 32-5	6877 21-7	11758 21-2	16404 57-1	18718 7
54	17-7	695 10-9	3065 39-5	6952 32-6	11842 36-4	16468 88 14-7	18725 6
55	19-5	721 15-0	3118 46-6	7028 43-5	11926 51-6	16531 32-2	18731 5
56	41°21-3	748 44°19-2	3172 49°53-7	7104 58°54-5	12011 72° 6-8	16593 88°49-8	18737 4
57	23-2	775 23-3	3226 50 0-8	7180 59 5-6	12095 22-1	16656 89 7-3	18740 3
58	25-1	802 27-6	3280 8-1	7256 16-7	12179 37-5	16717 24-9	18743 2
59	27-0	830 31-8	3335 15-4	7333 28-0	12263 53-0	16778 42-4	18745 1
60	29-0	858 36-1	3390 22-7	7410 39-3	12346 73 8-5	16838 90 0-0	18746 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	40°45'0	0	41°44'1	851	44°51'3	3363	50°37'6	7344	59°52'5	12223	73°16'9	16649	60
1	45'0	0	46'1	880	55'7	3418	45'0	7420	60 3'8	12305	32'3	16707	59
2	45'1	1	48'1	909	45 0'1	3474	52'4	7497	15'2	12388	47'8	16764	58
3	45'2	2	50'2	938	4'5	3530	59'9	7574	26'6	12470	74 3'4	16821	57
4	45'3	4	52'3	968	9'0	3586	51 7'5	7651	38'2	12552	19'0	16877	56
5	45'4	6	54'5	998	13'5	3643	15'1	7729	49'7	12634	34'7	16932	55
6	40°45'6	9	41°56'7	1029	45°18'1	3700	51°22'8	7806	61° 1'4	12716	74°50'5	16986	54
7	45'8	12	58'9	1060	22'7	3758	30'5	7884	13'2	12798	75 6'3	17040	53
8	46'0	15	42 1'2	1092	27'4	3816	38'3	7962	25'0	12880	22'1	17093	52
9	46'3	19	3'5	1124	32'1	3874	46'2	8041	36'9	12961	38'0	17145	51
10	46'6	24	5'8	1157	36'8	3933	54'1	8119	48'8	13043	54'0	17196	50
11	40°47'0	29	42° 8'2	1190	45°41'6	3992	52° 2'1	8198	62° 0'9	13124	76°10'0	17246	49
12	47'3	34	10'6	1224	46'5	4052	10'1	8277	13'0	13205	26'0	17296	48
13	47'7	40	13'0	1258	51'4	4112	18'2	8357	25'1	13286	42'2	17344	47
14	48'2	47	15'5	1292	56'3	4173	26'4	8436	37'4	13366	58'3	17392	46
15	48'7	53	18'0	1327	46 1'3	4234	34'6	8516	49'8	13446	77 14'5	17439	45
16	40°49'2	61	42°20'6	1363	46° 6'3	4295	52°42'9	8596	63° 2'1	13526	77°30'8	17485	44
17	49'7	69	23'2	1399	11'4	4357	51'2	8676	14'5	13605	47'1	17530	43
18	50'3	77	25'8	1435	16'5	4419	59'6	8756	27'1	13685	78 3'5	17574	42
19	50'9	86	28'5	1472	21'7	4481	53 8'1	8837	39'7	13765	19'9	17618	41
20	51'5	95	31'2	1509	26'9	4544	16'6	8917	52'4	13844	36'4	17660	40
21	40°52'1	105	42°33'9	1547	46°32'2	4607	53°25'2	8998	64° 5'2	13922	78°52'8	17702	39
22	52'8	115	36'7	1585	37'5	4671	33'9	9079	18'0	14001	79 9'4	17742	38
23	53'6	126	39'5	1624	42'9	4735	42'6	9160	30'9	14079	26'0	17782	37
24	54'4	137	42'3	1663	48'3	4799	51'4	9241	43'9	14156	42'6	17820	36
25	55'2	148	45'2	1702	53'7	4864	54 0'3	9323	56'9	14234	59'3	17858	35
26	40°56'0	160	42°48'2	1742	46°59'2	4929	54° 9'2	9404	65°10'0	14311	80°16'0	17895	34
27	56'8	173	51'1	1782	47 4'8	4994	18'2	9486	23'2	14388	32'7	17931	33
28	57'7	186	54'1	1823	10'4	5060	27'2	9568	36'4	14464	49'5	17966	32
29	58'6	199	57'2	1865	16'1	5126	36'3	9650	49'8	14540	81 6'3	17999	31
30	59'6	213	43 0'3	1907	21'8	5193	45'5	9733	66 3'2	14615	23'2	18032	30
31	41° 0'6	228	43° 3'4	1949	47°27'6	5260	54°54'8	9815	66°16'6	14690	81°40'0	18064	29
32	1'6	243	6'5	1991	33'4	5327	55 4'1	9898	30'2	14765	57'0	18095	28
33	2'7	258	9'7	2034	39'2	5394	13'5	9980	43'9	14840	82 14'0	18124	27
34	3'8	274	12'9	2078	45'1	5462	22'9	10062	57'5	14914	30'9	18153	26
35	4'9	290	16'2	2122	51'1	5530	32'4	10145	67 11'2	14987	47'9	18181	25
36	41° 6'1	307	43°19'5	2166	47°57'2	5599	55°42'0	10228	67°25'0	15060	83° 5'0	18207	24
37	7'3	325	22'9	2211	48 3'2	5668	51'6	10311	38'9	15133	22'1	18233	23
38	8'5	342	26'3	2256	9'3	5737	56 1'3	10394	52'9	15205	39'2	18258	22
39	9'8	360	29'7	2302	15'5	5807	11'1	10477	68 6'9	15277	56'3	18281	21
40	11'0	379	33'2	2348	21'7	5877	21'0	10560	21'0	15348	84 13'5	18304	20
41	41°12'3	398	43°36'7	2395	48°28'0	5948	56°30'9	10643	68°35'2	15418	84°30'6	18325	19
42	13'7	418	40'3	2442	34'3	6018	40'9	10726	49'4	15488	47'8	18346	18
43	15'1	438	43'9	2490	40'7	6089	50'9	10809	69 3'7	15558	85 5'0	18365	17
44	16'6	459	47'5	2538	47'1	6160	57 1'0	10892	18'1	15627	22'3	18383	16
45	18'0	480	51'2	2586	53'6	6232	11'2	10976	32'5	15695	39'6	18400	15
46	41°19'5	501	43°54'9	2635	49° 0'2	6304	57°21'5	11059	69°47'0	15763	85°56'8	18416	14
47	21'0	523	58'6	2684	6'8	6377	31'8	11142	70 1'6	15831	86 14'1	18431	13
48	22'6	546	44 2'4	2734	13'4	6449	42'2	11226	16'2	15898	31'5	18445	12
49	24'2	568	6'2	2784	20'1	6522	52'7	11309	30'9	15964	48'8	18457	11
50	25'8	592	10'1	2834	26'9	6595	58 3'2	11392	45'7	16029	87 6'1	18469	10
51	41°27'5	616	44°14'1	2885	49°33'7	6669	58°13'8	11475	71° 0'5	16094	87°23'5	18480	9
52	29'2	640	18'0	2937	40'6	6743	24'5	11559	15'4	16158	40'8	18489	8
53	31'0	665	22'0	2989	47'5	6817	35'3	11642	30'4	16222	58'2	18497	7
54	32'7	690	26'1	3041	54'5	6892	46'1	11725	45'4	16285	88 15'6	18505	6
55	34'5	716	30'2	3093	50 1'5	6966	57'0	11808	72 0'5	16347	33'0	18511	5
56	41°36'4	742	44°34'3	3146	50° 8'6	7041	59° 7'9	11891	72°15'7	16409	88°50'4	18516	4
57	38'3	769	38'5	3200	15'8	7116	18'9	11974	30'9	16470	89 7'8	18519	3
58	40'2	796	42'7	3254	23'0	7192	30'0	12057	46'1	16530	25'2	18522	2
59	42'1	823	47'0	3308	30'2	7268	41'2	12140	73 1'5	16590	42'6	18524	1
60	44'1	851	51'3	3363	37'6	7344	52'5	12223	16'9	16649	90 0'0	18525	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	41° 0' 0	0 41° 59' 1	845 45° 6' 5	3336 50° 52' 4	7279 60° 5' 6	12100 73° 25' 2	16461 60
1	0' 0	0 42 1' 2	873 10' 8	3390 59' 8	7354 16' 8	12181 40' 5	16519 59
2	0' 1	1 3' 2	901 15' 2	3446 51 7' 2	7430 28' 2	12262 55' 9	16576 58
3	0' 2	2 5' 3	931 19' 7	3501 14' 7	7506 39' 6	12344 74 11' 4	16631 57
4	0' 3	4 7' 4	961 24' 1	3557 22' 3	7582 51' 1	12425 26' 9	16686 56
5	0' 4	6 9' 6	991 28' 7	3613 29' 9	7659 61 2' 6	12506 42' 4	16740 55
6	41° 0' 6	8 42° 11' 8	1021 45° 33' 2	3670 51° 37' 5	7736 61° 14' 2	12587 74° 58' 1	16793 54
7	0' 8	11 14' 0	1052 37' 9	3727 45' 3	7813 25' 9	12668 75 13' 8	16846 53
8	1' 0	15 16' 3	1084 42' 5	3784 53' 0	7890 37' 7	12748 29' 5	16898 52
9	1' 3	19 18' 6	1116 47' 2	3843 52 0' 9	7968 49' 5	12829 45' 3	16949 51
10	1' 6	23 20' 9	1148 52' 0	3901 8' 8	8046 62 1' 4	12909 76 1' 1	17000 50
11	41° 1' 9	28 42° 23' 3	1181 45° 56' 8	3959 52° 16' 8	8124 62° 13' 4	12989 76° 17' 0	17049 49
12	2' 3	34 25' 7	1214 46 1' 6	4019 24' 8	8202 25' 4	13069 32' 9	17098 48
13	2' 8	40 28' 1	1248 6' 5	4078 32' 9	8280 37' 5	13148 48' 9	17146 47
14	3' 2	46 30' 6	1282 11' 5	4138 41' 0	8359 49' 7	13227 77 5' 0	17192 46
15	3' 6	53 33' 1	1317 16' 4	4198 49' 2	8437 63 2' 0	13306 21' 1	17238 45
16	41° 4' 2	60 42° 35' 7	1352 46° 21' 5	4260 52° 57' 5	8516 63° 14' 3	13385 77° 37' 2	17284 44
17	4' 7	68 38' 3	1388 26' 5	4321 53 5' 8	8596 26' 7	13464 53' 4	17328 43
18	5' 3	77 40' 9	1424 31' 7	4381 14' 2	8675 39' 2	13542 78 9' 6	17372 42
19	5' 9	85 43' 6	1461 36' 8	4443 22' 6	8755 51' 7	13621 25' 9	17414 41
20	6' 5	94 46' 3	1498 42' 0	4506 31' 2	8835 64 4' 3	13699 42' 2	17456 40
21	41° 7' 2	104 42° 49' 0	1535 46° 47' 3	4568 53° 39' 7	8915 64° 17' 0	13776 78° 58' 6	17497 39
22	7' 9	114 51' 8	1573 52' 6	4632 48' 4	8995 29' 8	13853 79 15' 0	17537 38
23	8' 6	125 54' 6	1611 57' 8	4695 57' 1	9075 42' 6	13930 31' 4	17576 37
24	9' 4	136 57' 5	1650 47 3' 4	4759 54 5' 8	9155 55' 5	14007 47' 9	17614 36
25	10' 2	147 43 0' 3	1689 8' 9	4823 14' 7	9236 65 8' 5	14083 80 4' 4	17651 35
26	41° 11' 0	159 43° 3' 3	1728 47° 14' 4	4887 54° 23' 6	9317 65° 21' 5	14159 80° 21' 0	17687 34
27	11' 8	171 6' 2	1768 19' 9	4952 32' 5	9398 34' 6	14235 37' 6	17722 33
28	12' 7	185 9' 2	1809 25' 5	5017 41' 5	9479 47' 8	14311 54' 2	17756 32
29	13' 7	198 12' 3	1850 31' 2	5083 50' 6	9559 66 1' 1	14385 81 10' 9	17789 31
30	14' 6	212 15' 4	1891 36' 9	5149 59' 8	9640 14' 4	14459 27' 6	17822 30
31	41° 15' 6	226 43° 18' 5	1933 47° 42' 7	5215 55° 9' 0	9722 66° 27' 8	14533 81° 44' 4	17853 29
32	16' 7	241 21' 7	1975 48' 5	5281 18' 3	9803 41' 2	14607 82 1' 2	17883 28
33	17' 7	256 24' 9	2018 54' 3	5348 27' 6	9885 54' 7	14680 18' 0	17912 27
34	18' 8	272 28' 1	2061 48 0' 2	5416 37' 0	9966 67 8' 3	14752 34' 8	17941 26
35	19' 9	288 31' 4	2105 6' 2	5484 46' 5	10048 22' 0	14825 51' 7	17968 25
36	41° 21' 1	305 43° 34' 7	2149 48° 12' 2	5552 55° 56' 1	10130 67° 35' 8	14897 83° 8' 6	17994 24
37	22' 3	322 38' 0	2194 18' 2	5620 56 5' 7	10212 49' 6	14969 25' 5	18019 23
38	23' 5	339 41' 4	2238 24' 4	5688 15' 4	10294 68 3' 4	15040 42' 5	18043 22
39	24' 8	358 44' 9	2283 30' 5	5757 25' 1	10376 17' 4	15110 59' 5	18067 21
40	26' 1	376 48' 3	2329 36' 7	5826 34' 9	10458 31' 4	15180 84 16' 5	18089 20
41	41° 27' 4	395 43° 51' 9	2375 48° 43' 0	5896 56° 44' 8	10540 68° 45' 5	15250 84° 33' 5	18109 19
42	28' 8	415 55' 4	2422 49' 3	5966 54' 8	10622 59' 6	15319 50' 5	18129 18
43	30' 2	435 59' 0	2470 55' 7	6036 57 4' 8	10704 69 13' 8	15387 85 7' 6	18149 17
44	31' 6	455 44 2' 6	2517 49 2' 1	6107 14' 9	10786 28' 1	15455 24' 7	18167 16
45	33' 1	476 6' 3	2565 8' 6	6178 25' 0	10868 42' 4	15523 41' 8	18183 15
46	41° 34' 6	497 44° 10' 0	2613 49° 15' 2	6249 57° 35' 2	10951 69° 56' 8	15590 85° 59' 0	18199 14
47	36' 1	519 13' 8	2662 21' 7	6321 45' 5	11033 70 11' 3	15656 86 16' 1	18213 13
48	37' 7	541 17' 6	2712 28' 4	6393 55' 9	11115 25' 8	15722 33' 3	18227 12
49	39' 3	564 21' 4	2762 35' 1	6465 58 6' 3	11197 40' 5	15787 50' 5	18239 11
50	40' 9	587 25' 3	2812 41' 8	6537 16' 8	11279 55' 1	15851 87 7' 7	18251 10
51	41° 42' 6	611 44° 29' 2	2862 49° 48' 7	6610 58° 27' 4	11362 71° 9' 8	15915 87° 24' 9	18261 9
52	44' 3	635 33' 2	2913 55' 5	6683 38' 0	11444 24' 6	15979 42' 1	18271 8
53	46' 0	660 37' 2	2965 50 2' 4	6756 48' 7	11526 39' 5	16041 59' 3	18279 7
54	47' 8	685 41' 3	3016 9' 4	6831 59' 5	11608 54' 4	16103 88 16' 5	18286 6
55	49' 6	710 45' 3	3068 16' 4	6904 59 10' 3	11690 72 9' 3	16165 33' 7	18292 5
56	41° 51' 4	736 44° 49' 5	3120 50° 23' 5	6979 59° 21' 2	11772 72° 24' 4	16226 88° 51' 0	18297 4
57	53' 3	763 53' 7	3174 30' 7	7053 32' 2	11854 39' 5	16285 89 8' 2	18301 3
58	55' 2	790 57' 9	3228 37' 9	7128 43' 3	11936 54' 7	16344 25' 5	18303 2
59	57' 2	817 45 2' 2	3282 45' 1	7203 54' 4	12018 73 9' 9	16403 42' 7	18305 1
60	59' 1	845 6' 5	3336 52' 4	7279 60 5' 6	12100 25' 2	16461 90 0' 0	18306 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	41°15-0	0	42°14-2	838	45°21-6	3309	51° 7-2	7213	60°18-6	11977	73°33-4	16275	60
1	15-0	0	16-2	866	25-9	3363	14-6	7288	29-9	12057	48-7	16331	59
2	15-1	1	18-3	895	30-3	3417	22-0	7363	41-2	12138	74 4-0	16387	58
3	15-2	2	20-4	924	34-8	3472	29-5	7438	52-5	12218	19-3	16442	57
4	15-3	4	22-5	953	39-3	3528	51 37-0	7514	61 3-9	12298	34-7	16496	56
5	15-4	6	24-7	983	43-8	3584	44-6	7589	15-4	12378	50-1	16550	55
6	41°15-6	8	42°26-8	1013	45°48-4	3640	51°52-3	7665	61°26-9	12458	75° 5-6	16602	54
7	15-8	11	29-1	1044	53-0	3697	52 0-0	7742	38-6	12537	21-2	16654	53
8	16-0	15	31-3	1075	57-6	3754	7-7	7818	50-3	12617	36-8	16705	52
9	16-3	19	33-6	1107	46 2-3	3811	15-6	7895	62 2-1	12696	52-5	16755	51
10	16-6	23	36-0	1139	7-1	3869	23-4	7972	13-9	12775	76 8-2	16805	50
11	41°17-0	28	42°38-4	1172	46°11-9	3927	52°31-4	8049	62°25-8	12854	76°24-0	16854	49
12	17-3	34	40-8	1205	16-7	3985	39-4	8126	37-8	12933	39-8	16901	48
13	17-7	39	43-2	1239	21-6	4044	47-4	8204	49-9	13012	55-6	16948	47
14	18-2	46	45-7	1273	26-6	4104	55-6	8281	63 2-0	13090	77 11-5	16994	46
15	18-6	52	48-2	1307	31-6	4164	53 3-8	8359	14-2	13168	27-5	17040	45
16	41°19-2	60	42°50-8	1342	46°36-6	4224	53°12-0	8437	63°26-5	13246	77°43-5	17084	44
17	19-7	67	53-4	1377	41-7	4284	20-3	8516	38-8	13323	59-6	17128	43
18	20-3	76	56-0	1413	46-8	4345	28-7	8594	51-2	13400	78 15-6	17171	42
19	20-9	84	58-7	1449	51-9	4406	37-1	8673	64 3-7	13477	31-8	17213	41
20	21-5	93	43 1-4	1486	57-2	4468	45-6	8752	16-2	13554	48-0	17254	40
21	41°22-2	103	43° 4-1	1523	47° 2-4	4530	53°54-2	8831	64°28-8	13631	79° 4-2	17294	39
22	22-9	113	6-9	1560	7-7	4592	54 2-8	8910	41-5	13707	20-5	17333	38
23	23-6	124	9-7	1598	13-1	4655	11-5	8989	54-3	13783	36-8	17371	37
24	24-4	135	12-6	1637	18-5	4718	20-2	9069	65 7-1	13858	53-2	17409	36
25	25-2	146	15-5	1676	24-0	4782	29-0	9148	20-0	13933	80 9-5	17445	35
26	41°26-0	158	43°18-4	1715	47°29-5	4846	54°37-9	9228	65°33-0	14008	80°26-0	17481	34
27	26-9	170	21-4	1755	35-0	4910	46-8	9308	46-0	14083	42-5	17515	33
28	27-8	183	24-4	1795	40-6	4974	55-8	9388	59-1	14157	59-0	17549	32
29	28-7	196	27-4	1835	46-3	5039	55 4-9	9468	66 12-3	14230	81 15-5	17581	31
30	29-7	210	30-5	1876	52-0	5104	14-0	9548	25-5	14304	32-1	17613	30
31	41°30-6	224	43°33-6	1918	47°57-8	5170	55°23-2	9629	66°38-8	14377	81°48-7	17643	29
32	31-7	239	36-8	1960	48 3-5	5236	32-4	9709	52-2	14449	82 5-3	17673	28
33	32-7	254	40-0	2002	9-4	5302	41-7	9790	67 5-6	14521	22-0	17702	27
34	33-8	270	43-2	2045	15-3	5369	51-1	9870	19-2	14593	38-7	17730	26
35	35-0	286	46-5	2088	21-2	5436	56 0-6	9951	32-7	14665	55-4	17757	25
36	41°36-1	302	43°49-8	2132	48°27-2	5503	56°10-1	10032	67°46-4	14735	83°12-2	17782	24
37	37-3	320	53-2	2176	33-3	5571	19-7	10113	68 0-1	14806	28-9	17807	23
38	38-6	337	56-5	2221	39-4	5639	29-3	10194	13-9	14876	45-8	17831	22
39	39-8	355	44 0-0	2266	45-5	5707	39-0	10275	27-7	14945	84 2-6	17854	21
40	41-1	373	3-5	2311	51-8	5776	48-8	10356	41-7	15014	19-5	17875	20
41	41°42-4	392	44° 7-0	2357	48°58-0	5845	56°58-7	10437	68°55-6	15083	84°36-3	17896	19
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46	41°49-6	493	44°25-2	2593	49°30-1	6195	57°48-9	10843	70° 6-5	15417	86° 1-1	17984	14
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48	52-7	537	32-7	2690	43-3	6337	58 9-5	11005	35-3	15547	35-1	18012	12
49	54-3	560	36-6	2739	50-0	6408	19-9	11087	49-9	15612	52-1	18024	11
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53	42 1-0	655	52-3	2940	17-3	6697	59 2-1	11411	48-5	15862	88 0-3	18062	7
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60	14-2	838	21-6	3309	51 7-2	7213	18-6	11977	33-4	16275	90 0-0	18089	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
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3	30-2	2	35-4	916	49-9	3443	44-2	7370	61 5-3	12093	27-1	16255	57
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9	31-3	19	48-7	1099	17-5	3779	30-2	7822	14-6	12565	59-6	16563	51
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13	32-8	39	58-3	1229	36-7	4010	53 2-0	8127	63 2-1	12875	77 2-2	16753	47
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19	35-9	83	13-8	1437	7-0	4369	51-5	8592	15-5	13335	37-7	17012	41
20	36-5	92	16-5	1473	12-2	4430	54 0-0	8670	28-0	13411	53-7	17052	40
21	41°37-2	102	43°19-2	1510	47°17-5	4491	54° 8-5	8747	64°40-6	13486	79° 9-8	17092	39
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23	38-6	122	24-8	1586	28-2	4615	25-8	8904	65 5-9	13636	42-2	17169	37
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28	42-8	181	39-5	1781	55-7	4932	10-0	9298	66 10-3	14004	81 3-6	17343	32
29	43-7	194	42-5	1821	48 1-3	4996	19-0	9377	23-4	14077	20-0	17375	31
30	44-7	209	45-6	1862	7-0	5060	28-1	9457	36-6	14149	36-5	17406	30
31	41°45-7	223	43°48-7	1903	48°12-7	5125	55°37-3	9536	66°49-8	14221	81°52-9	17436	29
32	46-7	237	51-9	1944	18-5	5190	46-5	9616	67 3-1	14293	82 9-4	17466	28
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34	48-9	268	58-3	2028	30-3	5322	56 5-2	9775	29-9	14434	42-5	17521	26
35	50-0	284	44 1-6	2071	36-2	5389	14-6	9855	43-4	14504	59-1	17547	25
36	41°51-2	300	44° 4-9	2115	48°42-2	5456	56°24-1	9935	67°56-9	14574	83°15-7	17572	24
37	52-4	317	8-3	2159	48-3	5523	33-6	10014	68 10-6	14644	32-4	17596	23
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39	54-8	352	15-1	2248	49 0-5	5657	52-9	10174	38-0	14781	84 5-7	17642	21
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46	42° 4-6	489	44°40-3	2572	49°45-0	6140	58° 2-5	10735	70°16-2	15246	86° 3-2	17770	14
47	6-2	511	44-0	2620	51-6	6210	12-7	10816	30-5	15310	20-0	17785	13
48	7-7	533	47-8	2668	58-2	6280	23-0	10896	44-8	15374	36-9	17798	12
49	9-3	555	51-7	2716	50 4-9	6351	33-4	10976	59-2	15437	53-8	17810	11
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	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	41°45-0	0 42°44-3	825 45°51-8	3254 51°36-7	7082 60°44-5	11733 73°49-7	15907 60
1	45-0	0 46-3	853 56-2	3307 44-1	7155 55-6	11812 74 4-7	15962 59
2	45-1	1 48-4	881 46 0-6	3361 51-4	7229 61 6-8	11890 19-8	16015 58
3	45-2	2 50-5	909 5-0	3415 58-9	7303 18-1	11968 34-9	16068 57
4	45-3	4 52-6	938 9-5	3469 52 6-4	7377 29-4	12046 50-1	16120 56
5	45-4	6 54-8	968 14-0	3524 14-0	7451 40-8	12124 75 5-3	16172 55
6	41°45-6	8 42°57-0	998 46°18-6	3579 52°21-6	7525 61°52-2	12202 75°20-6	16224 54
7	45-8	11 59-2	1028 23-2	3635 29-2	7600 62 3-8	12279 35-9	16274 53
8	46-0	15 43 1-5	1059 27-8	3691 37-0	7674 15-3	12356 51-2	16323 52
9	46-3	19 3-8	1090 32-6	3747 44-7	7749 27-0	12433 76 6-7	16371 51
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12	47-4	33 10-9	1186 46-9	3919 8-5	7976 63 2-4	12664 53-2	16513 48
13	47-8	39 13-4	1219 51-8	3977 16-5	8052 14-3	12740 77 8-8	16558 47
14	48-2	45 15-8	1252 56-7	4035 24-6	8128 26-3	12816 24-5	16603 46
15	48-7	52 18-4	1286 47 1-7	4093 32-7	8204 38-4	12892 40-2	16647 45
16	41°49-2	59 43°20-9	1320 47° 6-8	4152 53°40-9	8280 63°50-5	12968 77°56-0	16690 44
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18	50-3	75 26-2	1390 16-9	4272 57-5	8433 15-0	13118 27-6	16773 42
19	50-9	83 28-8	1426 22-1	4332 54 5-9	8510 27-3	13193 43-5	16814 41
20	51-5	92 31-5	1462 27-3	4392 14-4	8587 39-7	13268 59-4	16854 40
21	41°52-2	101 43°34-3	1498 47°32-6	4453 54°22-9	8664 64°52-2	13342 79°15-3	16892 39
22	52-9	111 37-1	1535 37-8	4514 31-4	8742 65 4-7	13416 31-4	16930 38
23	53-6	122 30-9	1573 43-2	4576 40-1	8819 17-4	13490 47-4	16967 37
24	54-4	132 42-7	1611 48-6	4638 48-7	8897 30-1	13563 80 3-5	17003 36
25	55-2	144 45-6	1649 54-1	4700 57-5	8975 42-8	13636 19-6	17039 35
26	41°56-0	155 43°48-6	1687 47°59-6	4762 55° 6-3	9053 65°55-6	13709 80°35-8	17073 34
27	56-9	168 51-5	1726 48 5-1	4825 15-2	9131 66 8-5	13781 52-0	17106 33
28	57-8	180 54-5	1766 10-7	4888 24-1	9209 21-4	13853 81 8-2	17139 32
29	58-7	193 57-6	1806 16-3	4952 33-2	9287 34-5	13924 24-5	17170 31
30	59-7	207 44 0-7	1846 22-0	5016 42-2	9365 47-5	13996 40-8	17201 30
31	42° 0-7	221 44° 3-8	1887 48°27-7	5080 55°51-4	9444 67° 0-7	14067 81°57-1	17231 29
32	1-7	235 7-0	1928 33-5	5145 56 0-5	9522 13-9	14137 82 13-5	17259 28
33	2-8	250 10-2	1970 39-4	5210 9-8	9601 27-2	14207 29-9	17287 27
34	3-9	266 13-4	2012 45-3	5276 19-1	9680 40-5	14277 46-3	17314 26
35	5-0	282 16-7	2055 51-2	5342 28-5	9759 53-9	14346 83 2-7	17340 25
36	42° 6-2	298 44°20-0	2098 48°57-2	5408 56°38-0	9837 68° 7-4	14415 83°19-2	17365 24
37	7-4	315 23-4	2141 49 3-2	5474 47-5	9916 21-0	14483 35-7	17388 23
38	8-6	332 26-8	2185 9-3	5540 57-1	9995 34-6	14551 52-2	17411 22
39	9-9	349 30-2	2229 15-5	5607 57 6-7	10074 48-2	14618 84 8-8	17433 21
40	11-2	368 33-7	2274 21-7	5675 16-4	10153 69 2-0	14685 25-4	17454 20
41	42°12-5	386 44°37-2	2319 49°27-9	5742 57°26-2	10233 69°15-8	14751 84°42-0	17474 19
42	13-9	405 40-8	2364 34-2	5810 36-0	10312 29-7	14818 58-6	17493 18
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44	16-7	445 48-0	2456 47-0	5947 55-9	10470 57-6	14948 31-9	17528 16
45	18-2	465 51-7	2503 53-4	6016 58 5-9	10549 70 11-6	15012 48-5	17544 15
46	42°19-7	486 44°55-4	2550 49 59-9	6085 58°16-1	10629 70°25-8	15076 86° 5-2	17559 14
47	21-2	507 59-1	2598 50 6-5	6154 26-2	10708 39-9	15139 21-9	17573 13
48	22-8	529 45 2-9	2646 13-1	6224 36-5	10787 54-2	15202 38-6	17586 12
49	24-4	551 6-8	2694 19-8	6294 46-8	10866 71 8-5	15264 55-4	17598 11
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52	29-4	620 18-6	2842 40-1	6506 18-1	11103 51-8	15447 45-6	17627 8
53	31-1	645 22-6	2892 47-0	6577 28-6	11182 72 6-3	15507 88 2-4	17635 7
54	32-9	669 26-6	2943 53-9	6648 39-3	11261 20-9	15566 19-2	17642 6
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56	42°36-6	719 45°34-9	3045 51° 8-0	6792 60° 0-8	11419 72°50-3	15682 88°52-8	17652 4
57	38-5	745 39-0	3096 15-1	6864 11-6	11498 73 5-1	15739 89 9-6	17656 3
58	40-4	771 43-2	3148 22-2	6937 22-5	11576 19-9	15796 26-4	17658 2
59	42-3	798 47-5	3201 29-5	7009 33-5	11655 34-8	15852 43-2	17660 1
60	44-3	825 51-8	3254 36-7	7082 44-5	11733 49-7	15907 90 0-0	17660 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H						
0	42° 0'0	0 42°59.4	819	46° 6'9	3226	51°51.4	7017	60°57.4	11612	73°57.8	15725	60
1	0'0	0 43 1.4	846	11'2	3279	58'7	7089	61 8.4	11690	74 12.7	15779	59
2	0'1	1 3.4	874	15'6	3332	52 6.1	7162	19'6	11767	27'6	15832	58
3	0'2	2 5.5	902	20'1	3386	13'5	7235	30'8	11844	42'6	15884	57
4	0'3	4 7.7	931	24'5	3440	21'0	7308	42'0	11921	57'7	15936	56
5	0'4	6 9.8	960	29'1	3494	28'5	7381	53'3	11998	75 12.8	15986	55
6	42° 0'6	8 43°12'0	989	46°33'6	3549	52°36'1	7455	62° 4'7	12074	75°27'9	16036	54
7	0'8	11 14.2	1020	38'2	3604	43'8	7529	16'2	12151	43'1	16086	53
8	1'0	15 16.5	1050	42'9	3660	51'5	7603	27'7	12227	58'4	16134	52
9	1'3	18 18.8	1081	47'6	3715	59'3	7677	39'3	12303	76 13'7	16182	51
10	1'6	23 21.2	1112	52'4	3771	53 7'1	7751	51'0	12379	29'0	16229	50
11	42° 2'0	28 43°23'6	1144	46°57'2	3828	53°15'0	7826	63° 2'7	12455	76°44'4	16275	49
12	2'3	33 26.0	1177	47 2'0	3885	22'9	7901	14'5	12530	59'9	16321	48
13	2'7	39 28.4	1210	6'9	3942	30'9	7976	26'4	12605	77 15'4	16366	47
14	3'2	45 30.9	1243	11'8	4000	39'0	8051	38'3	12680	30'9	16410	46
15	3'7	51 33.4	1276	16'8	4059	47'1	8126	50'3	12755	46'5	16453	45
16	42° 4'2	58 43°36'0	1310	47°21'8	4117	53°55'3	8202	64° 2'4	12830	78° 2'1	16495	44
17	4'7	66 38.6	1344	26'9	4175	54 3'5	8277	14'6	12904	17'8	16537	43
18	5'3	74 41.2	1379	32'0	4234	11'9	8353	26'8	12978	33'5	16577	42
19	5'9	83 43.9	1414	37'1	4294	20'2	8429	39'0	13052	49'2	16617	41
20	6'5	91 46.6	1450	42'3	4354	28'6	8505	51'4	13125	79 5'0	16656	40
21	42° 7'2	101 43°49'3	1486	47°47'6	4414	54°37'1	8582	65° 3'8	13199	79°20'9	16694	39
22	7'9	110 52.1	1523	52'9	4474	45'7	8659	16'3	13272	36'8	16731	38
23	8'6	121 55.0	1560	58'2	4536	54'3	8735	28'8	13344	52'7	16768	37
24	9'4	131 57.8	1597	48 3'6	4598	55 2'9	8811	41'4	13416	80 8'6	16803	36
25	10'2	142 44 0'7	1635	9'1	4659	11'7	8888	54'1	13488	24'6	16838	35
26	42° 11'0	154 44° 3'6	1674	48°14'6	4721	55°20'5	8965	66° 6'8	13560	80°40'7	16871	34
27	11'9	167 6'6	1712	20'1	4783	29'3	9042	19'6	13632	56'7	16904	33
28	12'8	179 9'6	1752	25'7	4846	38'2	9119	32'5	13702	81 12'8	16936	32
29	13'7	192 12'7	1791	31'3	4909	47'2	9197	45'4	13773	28'9	16967	31
30	14'7	205 15'8	1831	37'0	4973	56'2	9275	58'4	13843	45'1	16997	30
31	42° 15'7	219 44°18'9	1871	48°42'7	5036	56° 5'3	9352	67°11'5	13913	82° 1'3	17026	29
32	16'7	233 22.1	1913	48'5	5100	14'5	9430	24'6	13982	17'5	17055	28
33	17'8	248 25'3	1954	54'3	5164	23'7	9507	37'8	14051	33'7	17082	27
34	18'9	264 28'5	1996	49 0'2	5229	33'0	9585	51'1	14119	50'0	17108	26
35	20'0	280 31'8	2038	6'1	5294	42'4	9663	68 4'4	14188	83 6'4	17134	25
36	42° 21'2	296 44°35'1	2080	49°12'1	5360	56°51'8	9741	68°17'8	14256	83°22'7	17159	24
37	22'4	312 38.4	2123	18'2	5425	57 1'3	9819	31'3	14323	39'0	17182	23
38	23'6	329 41'8	2167	24'3	5491	10'8	9897	44'8	14390	55'4	17205	22
39	24'9	346 45'3	2211	30'4	5557	20'4	9975	58'4	14456	84 11'8	17226	21
40	26'2	365 48'8	2255	36'6	5624	30'1	10053	69 12'0	14522	28'3	17246	20
41	42° 27'5	383 44°52'3	2300	49°42'8	5692	57°39'9	10131	69°25'7	14587	84°44'7	17266	19
42	28'9	402 55.8	2345	49'1	5759	49'7	10209	39'5	14652	85 1'2	17285	18
43	30'3	421 59.4	2390	55'4	5826	59'5	10287	53'4	14717	17'7	17302	17
44	31'7	441 45 3'1	2436	50 1'8	5894	58 9'5	10365	70 7'3	14781	34'2	17319	16
45	33'2	461 6'8	2482	8'3	5962	19'5	10444	21'2	14844	50'7	17335	15
46	42° 34'7	482 45°10'5	2529	50°14'8	6030	58°29'5	10522	70°35'2	14907	86° 7'3	17350	14
47	36'2	503 14.2	2576	21'3	6099	39'7	10600	49'3	14969	23'8	17363	13
48	37'8	525 18'0	2624	27'9	6168	49'9	10678	71 3'5	15031	40'4	17376	12
49	39'4	547 21'9	2672	34'6	6237	59 0'1	10756	17'7	15092	57'0	17387	11
50	41'1	569 25'8	2720	41'3	6307	10'4	10834	31'9	15153	87 13'6	17398	10
51	42° 42'7	592 45°29'7	2769	50°48'1	6377	59°20'8	10913	71°46'2	15213	87°30'2	17408	9
52	44'4	616 33.6	2818	54'9	6447	31'3	10991	72 0'6	15272	46'8	17417	8
53	46'2	639 37'6	2868	51 1'8	6518	41'8	11069	15'1	15331	88 3'4	17424	7
54	48'0	664 41'7	2918	8'7	6588	52'4	11146	29'6	15389	20'1	17431	6
55	49'8	688 45'8	2968	15'7	6659	60 3'1	11224	44'2	15447	36'7	17436	5
56	42° 51'6	713 45°49'9	3019	51°22'7	6730	60°13'8	11302	72°58'8	15504	88°53'4	17441	4
57	53'5	739 54'1	3070	29'8	6801	24'6	11380	73 13'4	15560	89 10'0	17444	3
58	55'4	765 58'3	3122	36'9	6873	35'5	11457	28'1	15616	26'7	17447	2
59	57'4	792 46 2'6	3174	44'1	6945	46'4	11535	42'9	15671	43'3	17448	1
60	59'4	819 6'9	3226	51'4	7017	57'4	11612	57'8	15725	90 0'0	17449	0
	11 H	10 H	9 H	8 H	7 H	6 H	m					

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	42°15.0	0	43°14.4	812	46°22.0	3199	52° 6.0	6952	61°10.1	11492	74° 5.8	15544	60
1	15.0	0	16.4	839	26.3	3251	13.3	7024	21.2	11568	20.5	15597	59
2	15.1	1	18.5	867	30.7	3304	20.7	7096	32.2	11644	35.3	15649	58
3	15.2	2	20.6	895	35.1	3357	28.1	7168	43.4	11720	50.2	15700	57
4	15.3	4	22.7	923	39.6	3411	35.6	7240	54.6	11796	75 5.2	15751	56
5	15.4	6	24.9	952	44.1	3465	43.1	7312	62 5.8	11872	20.2	15801	55
6	42°15.6	8	43°27.1	982	46°48.7	3519	52°50.7	7385	62°17.2	11948	75°35.2	15851	54
7	15.8	11	29.3	1012	53.3	3573	58.3	7458	28.6	12023	50.3	15899	53
8	16.0	15	31.6	1042	58.0	3628	53 6.0	7531	40.1	12098	76 5.4	15947	52
9	16.3	18	33.9	1072	47 2.6	3683	13.8	7605	51.6	12173	20.6	15994	51
10	16.6	23	36.2	1103	7.4	3739	21.6	7678	63 3.2	12248	35.8	16040	50
11	42°17.0	28	43°38.6	1135	47°12.2	3795	53°29.4	7752	63°14.9	12323	76°51.1	16086	49
12	17.3	33	41.0	1167	17.0	3852	37.3	7826	26.6	12397	77 6.4	16131	48
13	17.7	38	43.5	1199	21.9	3909	45.3	7900	38.4	12471	21.8	16175	47
14	18.2	44	46.0	1232	26.8	3966	53.4	7974	50.3	12545	37.2	16218	46
15	18.7	51	48.5	1265	31.8	4023	54 1.5	8049	64 2.2	12619	52.7	16260	45
16	42°19.2	58	43°51.1	1299	47°36.8	4081	54° 9.6	8123	64°14.3	12693	78° 8.2	16302	44
17	19.7	65	53.7	1333	41.9	4139	17.9	8198	26.3	12766	23.7	16343	43
18	20.3	73	56.3	1368	47.0	4198	26.1	8273	38.5	12839	39.3	16382	42
19	20.9	82	59.0	1403	52.1	4257	34.5	8348	50.7	12912	55.0	16421	41
20	21.5	91	44 1.7	1438	57.3	4316	42.9	8424	65 2.9	12984	79 10.6	16460	40
21	42°22.2	100	44° 4.4	1474	48° 2.6	4376	54°51.3	8499	65°15.3	13056	79°26.3	16498	39
22	22.9	110	7.2	1511	7.9	4436	59.9	8575	27.7	13128	42.1	16534	38
23	23.6	120	10.0	1547	13.2	4496	55 8.4	8650	40.1	13200	57.9	16570	37
24	24.4	130	12.9	1584	18.6	4557	17.1	8726	52.7	13271	80 13.7	16605	36
25	25.2	141	15.8	1622	24.0	4618	25.8	8802	66 5.3	13342	29.6	16639	35
26	42°26.0	153	44°18.7	1660	48°29.5	4680	55°34.5	8878	66°17.9	13413	80°45.5	16672	34
27	26.9	166	21.7	1699	35.1	4742	43.4	8954	30.7	13483	81 1.4	16704	33
28	27.8	178	24.7	1738	40.6	4804	52.3	9031	43.5	13553	17.3	16736	32
29	28.7	190	27.8	1777	46.3	4866	56 1.2	9107	56.3	13622	33.3	16766	31
30	29.7	204	30.9	1816	51.9	4929	10.2	9183	67 9.2	13691	49.4	16796	30
31	42°30.7	218	44°34.0	1856	48°57.6	4992	56°19.3	9260	67°22.2	13760	82° 5.4	16824	29
32	31.7	232	37.1	1897	49 3.4	5055	28.4	9337	35.3	13829	21.5	16852	28
33	32.8	246	40.3	1938	9.3	5119	37.6	9414	48.4	13897	37.6	16879	27
34	33.9	262	43.6	1979	15.1	5183	46.9	9490	68 1.6	13964	53.8	16905	26
35	35.0	277	46.9	2021	21.1	5247	56.2	9567	14.8	14031	83 9.9	16930	25
36	42°36.2	293	44°50.2	2063	49°27.0	5312	57° 5.6	9644	68°28.2	14098	83°26.1	16954	24
37	37.4	310	53.5	2106	33.1	5377	15.0	9721	41.5	14164	42.4	16977	23
38	38.6	327	56.9	2149	39.1	5442	24.5	9798	55.0	14230	58.6	16999	22
39	39.9	344	45 0.4	2193	45.3	5508	34.1	9876	69 8.5	14295	84 14.8	17020	21
40	41.2	362	3.8	2237	51.4	5574	43.8	9953	22.0	14360	31.2	17041	20
41	42°42.6	380	45° 7.4	2281	49°57.7	5640	57°53.5	10030	69°35.6	14425	84°47.5	17060	19
42	43.9	399	10.9	2326	50 4.0	5707	58 3.2	10107	49.3	14489	85 3.8	17078	18
43	45.3	418	14.5	2371	10.3	5774	13.1	10184	70 3.1	14552	20.2	17095	17
44	46.8	438	18.2	2416	16.7	5841	22.9	10261	16.9	14615	36.5	17112	16
45	48.2	458	21.8	2462	23.1	5908	32.9	10339	30.7	14678	52.9	17127	15
46	42°49.7	478	45°25.6	2508	50°29.6	5976	58°42.9	10416	70°44.7	14740	86° 9.3	17142	14
47	51.3	499	29.3	2555	36.1	6044	53.0	10493	58.6	14801	25.7	17155	13
48	52.8	521	33.1	2602	42.7	6112	59 3.2	10570	71 12.7	14861	42.1	17167	12
49	54.5	542	37.0	2650	49.4	6181	13.4	10647	26.8	14921	58.6	17179	11
50	56.1	565	40.8	2698	56.1	6250	23.7	10724	41.0	14981	87 15.0	17189	10
51	42°57.8	587	45°44.8	2746	51° 2.8	6319	59°34.0	10801	71°55.2	15040	87°31.5	17199	9
52	59.5	611	48.7	2795	9.6	6388	44.4	10879	72 9.5	15099	48.0	17207	8
53	43 1.2	634	52.7	2844	16.5	6457	54.9	10956	23.8	15157	88 4.5	17215	7
54	3.0	658	56.8	2893	23.4	6527	60 5.5	11032	38.2	15214	21.0	17221	6
55	4.8	683	46 0.9	2943	30.4	6598	16.1	11109	52.7	15271	37.5	17227	5
56	43° 6.7	708	46° 5.0	2994	51°37.4	6668	60°26.7	11186	73° 7.2	15327	88°54.0	17231	4
57	8.6	733	9.2	3045	44.5	6739	37.5	11263	21.7	15382	89 10.5	17235	3
58	10.5	759	13.4	3096	51.6	6809	48.3	11339	36.3	15437	27.0	17238	2
59	12.4	785	17.7	3147	58.8	6881	59.2	11416	51.0	15491	43.5	17239	1
60	14.4	812	22.0	3199	52 6.0	6952	61 10.1	11492	74 5.8	15544	90 0.0	17239	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	42°30'0	0	43°29'4	805	46°37'0	3172	52°20'6	6887	61°22'8	11372	74°13'7	15365	60
1	30'0	0	31'5	832	41'3	3224	27'9	6958	33'8	11448	28'3	15417	59
2	30'1	1	33'5	860	45'7	3276	35'2	7029	44'8	11523	43'0	15469	58
3	30'2	2	35'6	888	50'2	3328	42'6	7100	55'9	11598	57'8	15519	57
4	30'3	4	37'8	916	54'6	3381	50'1	7172	62 7'1	11672	75 12'6	15568	56
5	30'4	6	39'9	945	59'2	3434	57'6	7244	18'3	11747	27'5	15617	55
6	42°30'6	8	43°42'1	974	47° 3'7	3488	53° 5'2	7316	62°29'6	11822	75°42'4	15666	54
7	30'8	11	44'4	1003	8'3	3543	12'8	7388	40'9	11896	57'4	15714	53
8	31'0	14	46'6	1033	13'0	3597	20'4	7460	52'3	11970	76 12'4	15761	52
9	31'3	18	48'9	1064	17'7	3652	28'2	7533	63 3'8	12044	27'5	15807	51
10	31'6	23	51'3	1095	22'4	3707	36'0	7606	15'4	12118	42'6	15853	50
11	42°32'0	27	43°53'7	1126	47°27'2	3762	53°43'8	7678	63°27'0	12192	76°57'8	15898	49
12	32'3	33	56'1	1158	32'0	3818	51'7	7751	38'7	12265	77 13'0	15942	48
13	32'8	38	58'5	1190	36'9	3874	59'7	7825	50'4	12338	28'2	15985	47
14	33'2	44	44 1'0	1222	41'8	3931	54 7'7	7998	64 2'2	12411	43'5	16028	46
15	33'7	51	3'6	1255	46'8	3988	15'8	7972	14'1	12484	58'8	16069	45
16	42°34'2	58	44° 6'1	1289	47°51'8	4045	54°23'9	8046	64°26'0	12556	78°14'2	16110	44
17	34'7	65	8'7	1323	56'9	4103	32'1	8120	38'0	12628	29'7	16150	43
18	35'3	73	11'3	1357	48 2'0	4161	40'4	8194	50'1	12700	45'1	16190	42
19	35'9	81	14'0	1392	7'1	4220	48'7	8268	65 2'2	12772	79 0'6	16228	41
20	36'5	90	16'7	1427	12'3	4278	57'1	8343	14'4	12844	16'2	16266	40
21	42°37'2	99	44°19'5	1462	48°17'5	4337	55° 5'5	8417	65°26'7	12915	79°31'7	16302	39
22	37'9	109	22'3	1498	22'8	4397	14'0	8491	39'0	12986	47'4	16338	38
23	38'7	119	25'1	1535	28'2	4457	22'5	8566	51'4	13056	80 3'0	16374	37
24	39'4	129	27'9	1572	33'5	4517	31'2	8641	66 3'9	13126	18'7	16408	36
25	40'2	140	30'8	1609	39'0	4577	39'8	8716	16'4	13196	34'4	16441	35
26	42°41'0	152	44°33'8	1646	48°44'5	4638	55°48'6	8792	66°29'0	13266	80°50'2	16474	34
27	41'9	164	36'7	1684	50'0	4699	57'4	8867	41'6	13335	81 6'0	16506	33
28	42'8	176	39'8	1723	55'6	4761	56 6'2	8942	54'3	13404	21'8	16536	32
29	43'8	188	42'8	1762	49 1'2	4823	15'1	9018	67 7'1	13472	37'7	16566	31
30	44'7	202	45'9	1801	6'9	4885	24'1	9093	20'0	13540	53'6	16596	30
31	42°45'7	216	44°49'0	1841	49°12'6	4947	56°33'2	9169	67°32'9	13608	82° 9'5	16624	29
32	46'8	230	52'2	1881	18'3	5010	42'3	9245	45'9	13676	25'5	16652	28
33	47'8	245	55'4	1922	24'1	5073	51'4	9320	58'9	13743	41'4	16678	27
34	48'9	260	58'6	1963	30'0	5136	57 0'7	9396	68 12'0	13809	57'4	16703	26
35	50'1	275	45 1'9	2004	35'9	5200	9'9	9472	25'2	13875	83 13'5	16727	25
36	42°51'2	291	45° 5'2	2046	49°41'9	5265	57°19'3	9548	68°38'4	13941	83°29'5	16751	24
37	52'4	308	8'6	2088	47'9	5329	28'7	9624	51'7	14006	45'6	16774	23
38	53'7	324	12'0	2131	54'0	5393	38'2	9701	69 5'0	14071	84 1'7	16796	22
39	54'9	341	15'4	2174	50 0'1	5458	47'7	9777	18'4	14136	17'9	16816	21
40	56'2	358	18'9	2217	6'3	5523	57'3	9853	31'9	14200	34'0	16836	20
41	42°57'6	376	45°22'4	2261	50°12'5	5589	58° 7'0	9929	69°45'4	14263	84°50'2	16855	19
42	58'9	395	26'0	2306	18'8	5655	16'7	10005	59'0	14326	85 6'4	16873	18
43	43 0'3	414	29'6	2351	25'1	5722	26'5	10081	70 12'7	14388	22'6	16890	17
44	1'8	434	33'2	2396	31'5	5788	36'4	10158	26'4	14450	38'8	16906	16
45	3'3	454	36'9	2441	37'9	5854	46'3	10234	40'2	14512	55'0	16921	15
46	43° 4'8	474	45°40'6	2487	50°44'4	5921	58°56'3	10310	70°54'0	14573	86°11'3	16935	14
47	6'3	495	44'4	2533	50'9	5989	59 6'3	10386	71 7'9	14633	27'6	16949	13
48	7'9	516	48'2	2580	57'5	6056	16'4	10463	21'9	14693	43'9	16961	12
49	9'5	538	52'0	2627	51 4'1	6124	26'6	10539	35'9	14752	87 0'2	16972	11
50	11'1	560	55'9	2675	10'8	6192	36'9	10615	49'9	14810	16'5	16982	10
51	43°12'8	583	45°59'8	2723	51°17'5	6260	59°47'2	10691	72° 4'0	14869	87°32'8	16992	9
52	14'5	606	46 3'8	2771	24'3	6329	57'5	10767	18'2	14927	49'1	17000	8
53	16'3	630	7'8	2820	31'2	6398	60 8'0	10843	32'5	14983	88 5'5	17008	7
54	18'0	653	11'8	2869	38'1	6468	18'5	10919	46'8	15040	21'8	17014	6
55	19'8	677	15'9	2918	45'0	6537	29'0	10995	73 1'1	15096	38'2	17019	5
56	43°21'7	702	46°20'1	2968	51°52'0	6607	60°39'7	11070	73°15'5	15151	88°54'5	17023	4
57	23'6	727	24'1	3018	59'1	6676	50'4	11146	30'0	15205	89 10'9	17027	3
58	25'5	753	28'4	3069	52 6'2	6746	61 1'1	11222	44'5	15259	27'3	17030	2
59	27'4	779	32'7	3120	13'4	6816	11'9	11297	59'0	15312	43'6	17031	1
60	29'4	805	37'0	3172	20'6	6887	22'8	11372	74 13'7	15365	90 0'0	17032	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	42°45-0	0	43°44-5	799	46°52-0	3144	52°35-2	6822	61°35-5	11253	74°21-5	15187	60
1	45-0	0	46-5	826	56-4	3196	42-4	6892	46-4	11327	36-1	15238	59
2	45-1	1	48-6	853	47 0-8	3248	49-7	6963	57-3	11401	50-7	15288	58
3	45-2	2	50-7	880	5-2	3300	57-1	7033	62 8-4	11475	75 5-3	15338	57
4	45-3	4	52-8	908	9-7	3352	53 4-6	7104	19-5	11549	20-1	15388	56
5	45-4	6	54-9	937	14-2	3405	12-0	7175	30-6	11623	34-8	15436	55
6	42°45-6	8	43°57-2	966	47°18-7	3458	53°19-6	7246	62°41-9	11696	75°49-6	15483	54
7	45-8	11	59-4	995	23-3	3512	27-2	7317	53-2	11770	76 4-5	15530	53
8	46-0	14	44 1-7	1025	28-0	3566	34-9	7389	63 4-5	11843	19-4	15577	52
9	46-3	18	4-0	1055	32-7	3620	42-6	7461	15-9	11916	34-3	15622	51
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13	47-8	38	13-6	1180	51-9	3841	14-0	7749	64 2-3	12206	34-6	15797	47
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19	50-9	80	29-1	1380	22-1	4183	55 2-8	8187	13-7	12634	79 6-2	16036	41
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23	53-7	118	40-1	1522	43-1	4417	36-6	8482	66 2-6	12914	80 8-1	16179	37
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48	22-9	512	46 3-2	2558	12-2	6000	29-6	10355	30-9	14525	45-6	16756	12
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57	38-6	721	39-3	2993	13-7	6614	61 3-1	11030	38-1	15030	89 11-3	16822	3
58	40-5	747	43-5	3043	20-8	6683	13-8	11104	52-5	15083	27-5	16824	2
59	42-5	772	47-7	3093	27-9	6753	24-6	11179	74 7-0	15135	43-8	16825	1
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	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	43° 0-0	0 43°59-5	792 47° 7-0	3117 52°49-7	6758 61°48-0	11135 74°29-3	15010 60
1	0-0	0 44 1-5	819 11-4	3168 56-9	6827 58-9	11208 43-7	15060 59
2	0-1	1 3-6	846 15-8	3219 53 4-2	6896 62 9-8	11281 58-2	15110 58
3	0-2	2 5-7	873 20-2	3271 11-6	6966 20-8	11354 75 12-8	15159 57
4	0-3	4 7-8	901 24-6	3323 19-0	7036 31-8	11427 27-4	15208 56
5	0-4	6 10-0	929 29-2	3375 26-4	7106 42-9	11499 42-0	15255 55
6	43° 0-6	8 44°12-2	958 47°33-7	3428 53°34-0	7177 62°54-1	11571 75°56-7	15302 54
7	0-8	11 14-4	987 38-3	3481 41-6	7247 63 5-3	11644 76 11-4	15348 53
8	1-0	14 16-7	1016 42-9	3534 49-2	7318 16-6	11716 26-3	15394 52
9	1-3	18 19-0	1046 47-7	3588 56-9	7389 28-0	11788 41-1	15438 51
10	1-6	22 21-4	1077 52-4	3642 54 4-6	7460 39-4	11859 56-0	15482 50
11	43° 2-0	27 44°23-7	1107 47°57-2	3697 54°12-4	7531 63°50-9	11931 77°10-9	15526 49
12	2-4	32 26-2	1138 48 2-0	3751 20-3	7602 64 2-5	12003 25-9	15568 48
13	2-8	37 28-6	1170 6-8	3806 28-2	7674 14-1	12074 40-9	15610 47
14	3-2	43 31-1	1202 11-7	3862 36-2	7746 25-8	12145 55-9	15651 46
15	3-7	49 33-6	1234 16-7	3918 44-2	7818 37-5	12216 78 11-0	15691 45
16	43° 4-2	57 44°36-2	1267 48°21-7	3974 54°52-3	7890 64°49-3	12286 78°26-2	15731 44
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18	5-3	71 41-4	1335 31-8	4088 8-7	8035 13-1	12426 56-5	15808 42
19	5-9	80 44-1	1369 37-0	4145 16-9	8107 25-1	12496 79 11-8	15845 41
20	6-5	88 46-8	1403 42-2	4203 25-3	8180 37-2	12565 27-1	15882 40
21	43° 7-2	97 44°49-6	1438 48°47-4	4261 55°33-7	8253 65°49-3	12634 79°42-4	15917 39
22	7-9	107 52-4	1473 52-7	4319 42-1	8326 66 1-5	12703 57-8	15952 38
23	8-6	117 55-2	1509 58-0	4378 50-6	8399 13-7	12772 80 13-2	15986 37
24	9-4	127 58-0	1545 49 3-4	4437 59-2	8472 26-1	12840 28-6	16019 36
25	10-2	138 45 0-9	1582 8-8	4496 56 7-8	8545 38-4	12908 44-1	16051 35
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28	12-8	173 9-9	1694 25-3	4676 34-0	8766 16-0	13109 30-7	16143 32
29	13-8	186 12-9	1732 30-9	4736 42-9	8839 28-6	13176 46-3	16172 31
30	14-7	199 16-0	1771 36-6	4797 51-8	8913 41-3	13242 82 1-9	16200 30
31	43°15-7	213 45°19-1	1811 49°42-3	4858 57° 0-7	8987 67°54-0	13308 82°17-6	16228 29
32	16-8	226 22-3	1850 48-1	4920 9-8	9061 68 6-8	13373 33-3	16254 28
33	17-8	241 25-5	1890 53-9	4982 18-9	9135 19-7	13438 49-0	16280 27
34	18-9	256 28-7	1930 59-7	5044 28-0	9209 32-6	13503 83 4-7	16304 26
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36	43°21-3	286 45°35-3	2012 50°11-6	5169 57°46-5	9357 68°58-7	13631 83°36-3	16351 24
37	22-5	302 38-7	2053 17-6	5232 55-9	9431 69 11-8	13694 52-1	16372 23
38	23-7	319 42-1	2095 23-6	5296 58 5-3	9506 25-0	13757 84 7-9	16393 22
39	25-0	336 45-5	2137 29-7	5359 14-8	9580 38-2	13819 23-8	16414 21
40	26-3	353 49-0	2180 35-9	5423 24-3	9654 51-4	13881 39-6	16433 20
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44	31-8	427 46 3-3	2355 51 0-9	5682 59 3-0	9951 45-3	14124 43-3	16501 16
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48	37-9	508 18-2	2537 26-9	5945 42-8	10248 40-0	14359 47-3	16554 12
49	39-5	530 22-1	2583 33-5	6011 52-8	10322 53-8	14417 87 3-3	16564 11
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52	44-6	596 33-8	2724 53-6	6212 23-5	10545 35-5	14586 51-4	16591 8
53	46-3	619 37-8	2772 52 0-4	6279 33-8	10619 49-6	14641 88 7-5	16598 7
54	48-1	643 41-9	2820 7-3	6347 44-3	10693 73 3-6	14695 23-5	16604 6
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57	53-7	715 54-3	2966 28-2	6552 15-8	10914 46-2	14856 89 11-7	16617 3
58	55-6	741 58-5	3016 35-3	6620 26-5	10987 74 0-5	14908 27-8	16620 2
59	57-5	766 47 2-7	3066 42-5	6689 37-2	11061 14-9	14960 43-9	16621 1
60	59-5	792 7-0	3117 49-7	6758 48-0	11135 29-3	15010 90 0-0	16622 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	43° 15.0	0	44° 14.5	786	47° 22.0	3090	53° 4.1	6693	62° 0.5	11016	74° 37.0	14835	60
1	15.0	0	16.6	812	26.3	3140	11.4	6762	11.3	11089	51.4	14884	59
2	15.1	1	18.6	839	30.8	3191	18.6	6831	22.2	11161	75 5.7	14933	58
3	15.2	2	20.7	866	35.2	3242	26.0	6900	33.1	11233	20.2	14981	57
4	15.3	4	22.9	893	39.6	3293	33.4	6969	44.1	11304	34.7	15029	56
5	15.4	6	25.1	921	44.1	3345	40.8	7038	55.1	11376	49.2	15076	55
6	43° 15.6	8	44° 27.2	950	47° 48.7	3398	53° 48.3	7108	63° 6.2	11448	76° 3.8	15122	54
7	15.8	11	29.5	979	53.3	3450	56.0	7177	17.4	11519	18.4	15167	53
8	16.1	14	31.7	1008	57.9	3503	54 3.5	7247	28.7	11590	33.1	15212	52
9	16.3	18	34.1	1038	48 2.6	3556	11.2	7317	40.0	11661	47.8	15256	51
10	16.6	22	36.4	1068	7.3	3610	18.9	7388	51.4	11732	77 2.6	15299	50
11	43° 16.9	27	44° 38.8	1098	48° 12.1	3664	54° 26.7	7458	64° 2.8	11802	77° 17.4	15342	49
12	17.4	32	41.2	1129	16.9	3718	34.5	7529	14.3	11873	32.2	15384	48
13	17.8	37	43.6	1160	21.8	3773	42.4	7600	25.8	11943	47.1	15425	47
14	18.2	43	46.2	1192	26.7	3828	50.4	7670	37.4	12013	78 2.0	15465	46
15	18.7	49	48.7	1224	31.6	3883	58.4	7742	49.1	12083	17.0	15505	45
16	43° 19.2	56	44° 51.2	1257	48° 36.6	3939	55° 6.5	7813	65° 0.9	12152	78° 32.0	15544	44
17	19.7	63	53.8	1290	41.7	3995	14.6	7884	12.7	12221	47.1	15582	43
18	20.3	71	56.5	1323	46.8	4051	22.8	7956	24.5	12290	79 2.2	15619	42
19	20.9	79	59.1	1357	51.9	4108	31.0	8027	36.5	12359	17.3	15656	41
20	21.6	88	45 1.9	1391	57.1	4165	39.3	8099	48.5	12427	32.5	15692	40
21	43° 22.2	97	45° 4.6	1426	49° 2.3	4223	55° 47.7	8171	66° 0.5	12495	79° 47.7	15727	39
22	22.9	106	7.4	1461	7.6	4280	56.1	8243	12.6	12563	80 2.9	15761	38
23	23.7	116	10.2	1496	12.9	4338	56 4.6	8315	24.8	12631	18.2	15794	37
24	24.4	126	13.1	1532	18.3	4397	13.1	8388	37.1	12698	33.5	15827	36
25	25.2	137	16.0	1569	23.7	4455	21.7	8460	49.3	12765	48.8	15859	35
26	43° 26.1	148	45° 18.9	1606	49° 29.1	4514	56° 30.3	8533	67° 1.7	12831	81° 4.2	15890	34
27	26.9	160	21.9	1643	34.6	4574	39.0	8605	14.2	12898	19.6	15920	33
28	27.8	172	24.9	1680	40.2	4633	47.8	8678	26.6	12963	35.1	15949	32
29	28.8	184	27.9	1718	45.8	4693	56.6	8751	39.2	13029	50.5	15978	31
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31	43° 30.8	211	45° 34.2	1795	49° 57.1	4814	57° 14.5	8896	68° 4.5	13159	82 21.6	16032	29
32	31.8	224	37.3	1834	50 2.9	4875	23.5	8970	17.2	13223	37.1	16058	28
33	32.9	239	40.5	1874	8.7	4936	32.5	9043	30.0	13287	52.7	16083	27
34	34.0	253	43.8	1914	14.5	4998	41.7	9116	42.8	13351	83 8.3	16107	26
35	35.1	268	47.0	1954	20.4	5060	50.8	9189	55.8	13414	23.9	16131	25
36	43° 36.3	284	45° 50.4	1995	50° 26.3	5122	58° 0.1	9262	69° 8.7	13477	83° 39.6	16153	24
37	37.5	300	53.7	2036	32.3	5184	9.4	9335	21.7	13539	55.2	16174	23
38	38.7	316	57.1	2077	38.4	5247	18.8	9409	34.8	13601	84 10.9	16195	22
39	40.0	333	46 0.5	2119	44.4	5310	28.2	9482	48.0	13662	26.7	16215	21
40	41.3	350	4.0	2162	50.6	5373	37.7	9555	70 1.2	13723	42.4	16234	20
41	43° 42.6	368	46° 7.5	2205	50° 56.8	5437	58° 47.2	9629	70° 14.5	13784	84° 58.2	16252	19
42	44.0	386	11.1	2248	51 3.0	5501	56.8	9702	27.8	13844	85 13.9	16269	18
43	45.4	405	14.7	2291	9.3	5565	59 6.5	9775	41.2	13904	29.7	16285	17
44	46.8	424	18.3	2335	15.6	5629	16.3	9849	54.6	13963	45.5	16300	16
45	48.3	443	22.0	2379	22.0	5694	26.1	9922	71 8.1	14022	86 1.4	16315	15
46	43° 49.8	463	46° 25.7	2423	51° 28.5	5758	59 35.9	9995	71° 21.6	14080	86° 17.2	16328	14
47	51.3	483	29.5	2469	35.0	5824	45.8	10069	35.2	14137	33.1	16341	13
48	52.9	504	33.3	2515	41.5	5889	55.8	10142	48.9	14194	48.9	16352	12
49	54.5	525	37.1	2561	48.1	5955	60 5.9	10215	72 2.6	14251	87 4.8	16363	11
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51	43° 57.9	569	46° 44.9	2653	52° 1.5	6087	60° 26.2	10362	72° 30.2	14362	87° 36.6	16382	9
52	59.6	591	48.8	2700	8.2	6153	36.4	10435	44.1	14417	52.5	16390	8
53	44 1.3	614	52.8	2748	15.0	6220	46.6	10508	58.0	14471	88 8.4	16397	7
54	3.1	637	56.9	2796	21.9	6287	57.0	10581	73 12.0	14525	24.4	16403	6
55	4.9	661	47 1.0	2844	28.8	6354	61 7.4	10654	26.0	14578	40.3	16408	5
56	44° 6.8	685	47° 5.1	2892	52° 35.7	6421	61° 17.9	10726	73° 40.1	14631	88° 56.2	16412	4
57	8.7	710	9.3	2941	42.7	6489	28.5	10799	54.3	14683	89 12.2	16415	3
58	10.6	735	13.5	2990	49.8	6557	39.1	10872	74 8.5	14734	28.1	16417	2
59	12.5	760	17.7	3040	57.0	6625	49.8	10944	22.7	14785	44.1	16419	1
60	14.5	786	22.0	3090	53 4.1	6693	62 0.5	11016	37.0	14835	90 0.0	16419	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	43°30·0	0 44°29·6	779 47°37·0	3062 53°18·5	6629 62°12·9	10899 74°44·7	14661 60
1	30·0	0 31·6	805 41·3	3112 25·8	6697 23·7	10970 58·9	14709 59
2	30·1	1 33·6	832 45·7	3163 33·0	6765 34·5	11041 75 13·2	14757 58
3	30·2	2 35·7	859 50·1	3213 40·3	6833 45·4	11112 27·5	14805 57
4	30·3	3 37·9	886 54·6	3264 47·7	6902 56·3	11183 41·9	14852 56
5	30·4	5 40·0	914 59·1	3316 55·1	6970 63 7·3	11254 56·3	14898 55
6	43°30·6	8 44°42·2	942 48° 3·6	3368 54° 2·6	7039 63°18·3	11324 76°10·8	14943 54
7	30·8	11 44·5	970 8·2	3420 10·2	7108 29·5	11394 25·3	14988 53
8	31·0	14 46·8	999 12·9	3472 17·8	7177 40·6	11465 39·9	15032 52
9	31·3	18 49·1	1029 17·5	3525 25·4	7246 51·9	11535 54·5	15075 51
10	31·7	22 51·4	1059 22·3	3578 33·1	7315 64 3·2	11604 77 9·1	15118 50
11	43°32·0	26 44°53·8	1089 48°27·0	3632 54°40·9	7385 64°14·6	11674 77°23·8	15160 49
12	32·4	31 56·2	1119 31·8	3685 48·7	7455 26·0	11744 38·5	15201 48
13	32·8	37 58·7	1150 36·7	3739 56·6	7525 37·5	11813 53·3	15241 47
14	33·2	42 45 1·2	1182 41·6	3793 55 4·5	7595 49·0	11881 78 8·1	15281 46
15	33·6	49 3·7	1214 46·5	3848 12·5	7665 65 0·6	11950 23·0	15320 45
16	43°34·2	56 45° 6·3	1246 48°51·5	3903 55°20·5	7735 65°12·3	12019 78°37·9	15358 44
17	34·7	63 8·9	1279 56·6	3959 28·6	7806 24·1	12087 52·8	15396 43
18	35·3	71 11·5	1312 49 1·6	4015 36·8	7877 35·9	12155 79 7·8	15433 42
19	35·9	78 14·2	1345 6·8	4071 45·0	7948 47·7	12222 22·8	15468 41
20	36·5	87 16·9	1379 11·9	4128 53·3	8019 59·7	12290 37·8	15503 40
21	43°37·2	96 45°19·6	1414 49°17·2	4184 56° 1·6	8090 66°11·7	12357 79°52·9	15538 39
22	37·9	105 22·4	1449 22·4	4241 10·0	8161 23·7	12424 80 8·0	15572 38
23	38·7	115 25·2	1484 27·7	4299 18·4	8232 35·8	12490 23·2	15605 37
24	39·4	125 28·1	1519 33·1	4356 26·9	8304 48·0	12556 38·3	15637 36
25	40·2	136 31·0	1555 38·5	4414 35·5	8375 67 0·2	12622 53·6	15668 35
26	43°41·1	147 45°33·9	1591 49°43·9	4473 56°44·1	8447 67°12·5	12688 81° 8·8	15698 34
27	41·9	159 36·9	1628 49·4	4532 52·8	8519 24·8	12753 24·1	15728 33
28	42·8	170 39·9	1666 55·0	4591 57 1·5	8590 37·3	12818 39·4	15757 32
29	43·8	183 43·0	1703 50 0·6	4650 10·3	8662 49·7	12883 54·7	15785 31
30	44·8	196 46·0	1741 6·2	4710 19·2	8734 68 2·3	12947 82 10·1	15812 30
31	43°45·8	209 45°49·2	1780 50°11·9	4770 57°28·1	8806 68°14·8	13011 82°25·5	15838 29
32	46·8	223 52·3	1818 17·6	4830 37·1	8878 27·5	13074 40·9	15863 28
33	47·9	237 55·5	1857 23·4	4891 46·1	8951 40·2	13137 56·4	15888 27
34	49·0	251 58·8	1897 29·3	4952 55·2	9023 53·0	13200 83 11·8	15912 26
35	50·1	266 46 2·1	1937 35·1	5013 58 4·4	9095 69 5·8	13262 27·3	15935 25
36	43°51·3	281 46° 5·4	1978 50 41·1	5075 58°13·6	9168 69°18·7	13324 83°42·9	15957 24
37	52·5	297 8·7	2019 47·0	5136 22·8	9240 31·6	13385 58·4	15978 23
38	53·7	314 12·1	2060 53·1	5198 32·2	9313 44·6	13446 84 14·0	15999 22
39	55·0	331 15·5	2101 59·2	5261 41·6	9385 57·7	13507 29·5	16018 21
40	56·3	347 19·0	2143 51 5·3	5323 51·0	9457 70 10·8	13568 45·2	16036 20
41	43°57·6	365 46°22·5	2185 51°11·5	5386 59° 0·5	9529 70°24·0	13627 85° 0·8	16054 19
42	59·0	383 26·1	2228 17·7	5449 10·1	9602 37·2	13686 16·4	16071 18
43	44 0·4	401 29·7	2271 24·0	5512 19·7	9674 50·5	13744 32·1	16087 17
44	1·8	420 33·3	2315 30·4	5576 29·4	9746 71 3·8	13802 47·8	16102 16
45	3·3	439 37·0	2359 36·7	5640 39·2	9818 17·3	13860 86 3·4	16116 15
46	44° 4·8	459 46°40·7	2403 51°43·1	5704 59°49·0	9891 71°30·7	13918 86°19·1	16129 14
47	6·4	479 44·5	2448 49·6	5768 58·9	9964 44·2	13974 34·9	16141 13
48	7·9	500 48·3	2493 56·1	5833 60 8·8	10036 57·8	14030 50·6	16152 12
49	9·5	520 52·1	2538 52 2·7	5899 18·8	10108 72 11·4	14086 87 6·3	16163 11
50	11·2	542 56·0	2584 9·3	5964 28·9	10181 25·1	14141 22·1	16173 10
51	44°12·9	563 46°59·9	2630 52°16·0	6029 60°39·0	10253 72°38·8	14196 87°37·9	16182 9
52	14·6	586 47 3·8	2677 22·7	6095 49·2	10325 52·6	14250 53·6	16190 8
53	16·3	608 7·8	2724 29·5	6161 59·5	10397 73 6·4	14303 88 9·4	16196 7
54	18·1	632 11·9	2771 36·4	6227 61 9·8	10469 20·3	14356 25·2	16202 6
55	19·9	656 15·9	2819 43·3	6294 20·1	10541 34·2	14408 41·0	16207 5
56	44°21·8	679 47°20·1	2867 52°50·2	6360 61°30·6	10612 73°48·2	14459 88°56·8	16212 4
57	23·7	703 24·2	2915 57·2	6427 41·1	10684 74 2·2	14511 89 12·6	16215 3
58	25·6	728 28·4	2964 53 4·3	6494 51·6	10755 16·3	14562 28·4	16217 2
59	27·6	753 32·7	3013 11·4	6562 62 2·3	10827 30·5	14612 44·2	16218 1
60	29·6	779 37·0	3062 18·5	6629 12·9	10899 44·7	14661 90 0·0	16219 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	43°45.0	0	44°44.6	773	47°51.9	3035	53°32.9	6565	62°25.3	10782	74°52.3	14488	60
1	45.0	0	46.6	798	56.3	3085	40.1	6632	36.0	10852	75 6.4	14536	59
2	45.1	1	48.6	825	48 0.6	3135	47.4	6699	46.7	10922	20.6	14583	58
3	45.2	2	50.7	851	5.0	3185	54.7	6767	57.5	10992	34.8	14630	57
4	45.3	3	52.9	878	9.5	3235	54 2.0	6834	63 8.4	11062	49.1	14676	56
5	45.4	5	55.1	906	14.0	3286	9.4	6902	19.4	11132	76 3.3	14721	55
6	43°45.6	8	44°57.3	934	48°18.6	3337	54°16.9	6970	63°30.4	11201	76°17.7	14766	54
7	45.8	11	59.5	962	23.2	3389	24.4	7038	41.4	11271	32.1	14810	53
8	46.0	14	45 1.8	991	27.8	3441	32.0	7106	52.5	11340	46.6	14853	52
9	46.3	18	4.1	1020	32.4	3493	39.6	7175	64 3.7	11409	77 1.1	14896	51
10	46.6	22	6.4	1050	37.1	3546	47.3	7244	15.0	11478	15.6	14938	50
11	43°47.0	26	45° 8.8	1080	48°41.9	3598	54°55.0	7312	64°26.3	11546	77°30.2	14979	49
12	47.4	31	11.2	1110	46.7	3652	55 2.8	7381	37.7	11615	44.8	15019	48
13	47.8	37	13.7	1141	51.6	3705	10.7	7451	49.1	11683	59.4	15059	47
14	48.2	42	16.2	1172	56.5	3759	18.6	7520	65 0.6	11751	78 14.1	15098	46
15	48.7	49	18.7	1203	49 1.4	3814	26.5	7589	12.1	11819	28.9	15136	45
16	43°49.2	55	45°21.3	1235	49° 6.4	3868	55°34.6	7659	65°23.7	11886	78°43.7	15174	44
17	49.7	62	23.9	1268	11.4	3923	42.6	7729	35.4	11953	58.5	15211	43
18	50.3	70	26.5	1301	16.5	3978	50.8	7799	47.1	12020	79 13.3	15247	42
19	50.9	78	29.2	1334	21.6	4034	59.0	7869	58.9	12087	28.2	15282	41
20	51.6	86	31.9	1368	26.8	4090	56 7.2	7939	66 10.8	12154	43.1	15317	40
21	43°52.2	95	45°34.6	1402	49°32.0	4146	56°15.5	8009	66°22.7	12220	79°58.1	15351	39
22	52.9	104	37.4	1436	37.3	4203	23.9	8079	34.7	12285	80 13.1	15384	38
23	53.7	114	40.2	1471	42.6	4260	32.3	8150	46.7	12351	28.1	15416	37
24	54.4	124	43.1	1506	47.9	4317	40.8	8220	58.8	12416	43.1	15448	36
25	55.2	135	46.0	1542	53.3	4374	49.3	8291	67 11.0	12481	58.3	15478	35
26	43°56.1	146	45°48.9	1578	49°58.8	4432	56°57.9	8362	67°23.2	12546	81°13.4	15508	34
27	57.0	157	51.9	1614	50 4.3	4490	57 6.5	8433	35.4	12610	28.5	15537	33
28	57.9	169	54.9	1651	9.8	4549	15.2	8504	47.8	12674	43.7	15566	32
29	58.8	181	58.0	1689	15.4	4607	24.0	8575	68 0.2	12738	58.9	15593	31
30	59.8	194	46 1.0	1726	21.0	4666	32.8	8646	12.6	12801	82 14.1	15620	30
31	44° 0.8	207	46° 4.2	1764	50°26.7	4726	57°41.7	8717	68°25.1	12863	82°29.4	15646	29
32	1.8	221	7.3	1803	32.4	4786	50.6	8788	37.7	12926	44.7	15671	28
33	2.9	235	10.5	1842	38.2	4846	59.6	8859	50.3	12988	83 0.0	15695	27
34	4.0	249	13.8	1881	44.0	4906	58 8.7	8931	69 3.0	13050	15.4	15718	26
35	5.1	264	17.1	1920	49.9	4966	17.8	9002	15.8	13111	30.7	15741	25
36	44° 6.3	279	46°20.4	1960	50°55.8	5027	58°27.0	9073	69°28.6	13172	83°46.1	15763	24
37	7.5	295	23.7	2001	51 1.8	5088	36.2	9145	41.4	13232	84 1.5	15783	23
38	8.7	311	27.1	2042	7.8	5150	45.5	9216	54.3	13292	16.9	15803	22
39	10.0	328	30.5	2083	13.8	5211	54.8	9288	70 7.3	13352	32.4	15823	21
40	11.3	344	34.0	2124	20.0	5273	59 4.3	9359	20.3	13411	47.9	15841	20
41	44°12.6	362	46°37.5	2166	51°26.1	5335	59°13.7	9431	70°33.5	13470	85° 3.3	15858	19
42	14.0	380	41.1	2209	32.3	5398	23.3	9502	46.6	13528	18.9	15874	18
43	15.4	398	44.7	2251	38.6	5461	32.9	9574	59.8	13587	34.4	15890	17
44	16.8	417	48.3	2295	44.9	5524	42.6	9645	71 13.0	13643	49.9	15905	16
45	18.3	436	52.0	2338	51.3	5587	52.3	9716	26.3	13700	86 5.5	15919	15
46	44°19.8	455	46°55.7	2382	51°57.7	5650	60° 2.0	9787	71°39.7	13756	86°21.1	15932	14
47	21.4	475	59.4	2426	52 4.2	5714	11.9	9859	53.1	13812	36.6	15944	13
48	23.0	496	47 3.2	2471	10.7	5778	21.8	9931	72 6.6	13868	52.2	15955	12
49	24.6	516	7.0	2516	17.2	5843	31.7	10002	20.1	13922	87 7.9	15965	11
50	26.2	537	10.9	2561	23.9	5907	41.7	10073	33.7	13976	23.5	15975	10
51	44°27.9	559	47°14.9	2607	52°30.5	5972	60°51.8	10145	72°47.3	14030	87°39.1	15984	9
52	29.6	581	18.8	2653	37.2	6037	61 2.0	10216	73 1.0	14083	54.7	15991	8
53	31.4	604	22.8	2700	44.0	6102	12.2	10287	14.7	14136	88 10.4	15998	7
54	33.1	627	26.8	2746	50.9	6168	22.4	10358	28.5	14188	26.0	16004	6
55	35.0	650	30.9	2794	57.7	6233	32.7	10429	42.3	14240	41.7	16009	5
56	44°36.8	674	47°35.0	2841	53° 4.7	6299	61°43.1	10500	73°56.2	14290	88°57.3	16013	4
57	38.7	698	39.2	2889	11.6	6365	53.6	10570	74 10.1	14340	89 13.0	16016	3
58	40.6	722	43.4	2937	18.7	6431	62 4.1	10641	24.1	14390	28.7	16018	2
59	42.6	747	47.7	2986	25.8	6498	14.7	10712	38.2	14439	44.4	16020	1
60	44.6	773	51.9	3035	32.9	6565	25.3	10782	52.3	14488	90 0.0	16020	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	44° 0-0	0 44°59-6	766 48° 6-9	3008 53°47-2	6501 62°37-6	10666 74°59-8	14317 60
1	0-0	0 45 1-6	792 11-2	3057 54-4	6567 48-2	10735 75 13-8	14364 59
2	0-1	1 3-7	818 15-6	3106 54 1-6	6634 58-9	10804 27-9	14410 58
3	0-2	2 5-8	845 20-0	3156 8-9	6700 63 9-7	10873 42-0	14456 57
4	0-3	3 7-9	871 24-4	3206 16-3	6767 20-5	10942 56-2	14501 56
5	0-4	5 10-1	898 28-9	3257 23-6	6834 31-4	11011 76 10-3	14546 55
6	44° 0-6	8 45°12-3	926 48°33-4	3307 54°31-1	6902 63°42-3	11079 76°24-6	14590 54
7	0-8	10 14-5	954 38-0	3358 38-6	6969 53-3	11148 38-9	14633 53
8	1-0	14 16-8	982 42-7	3410 46-1	7036 64 4-4	11216 53-2	14676 52
9	1-3	17 19-1	1011 47-3	3461 53-7	7104 15-5	11284 77 7-6	14718 51
10	1-6	21 21-4	1040 52-1	3513 55 1-4	7172 26-7	11351 22-0	14759 50
11	44° 2-0	26 45°23-8	1070 48°56-8	3566 55° 9-1	7240 64°37-9	11419 77°36-5	14799 49
12	2-4	31 26-2	1101 49 1-6	3618 16-9	7308 49-2	11486 51-0	14839 48
13	2-8	36 28-7	1131 6-5	3671 24-7	7376 65 0-6	11554 78 5-5	14878 47
14	3-2	42 31-2	1162 11-3	3725 32-6	7445 12-0	11621 20-1	14917 46
15	3-7	48 33-7	1193 16-3	3779 40-5	7514 23-5	11688 34-7	14954 45
16	44° 4-2	55 45°36-3	1225 49°21-2	3833 55°48-5	7582 65°35-1	11755 78°49-4	14991 44
17	4-7	62 38-9	1257 26-3	3887 56-6	7651 46-7	11821 79 4-1	15027 43
18	5-3	69 41-5	1290 31-3	3941 56 4-7	7720 58-3	11887 18-8	15063 42
19	5-9	77 44-2	1323 36-4	3997 12-8	7789 66 10-1	11952 33-6	15098 41
20	6-6	86 46-9	1356 41-6	4052 21-0	7858 21-9	12018 48-4	15132 40
21	44° 7-2	94 45°49-6	1390 49°46-8	4108 56°29-3	7928 66°33-7	12083 80° 3-2	15165 39
22	7-9	103 52-4	1424 52-1	4164 37-7	7998 45-6	12147 18-1	15198 38
23	8-7	113 55-2	1458 57-4	4221 46-1	8067 57-6	12212 33-0	15230 37
24	9-4	123 58-1	1493 50 2-7	4277 54-5	8137 67 9-6	12277 47-9	15261 36
25	10-2	134 46 1-0	1528 8-1	4334 57 3-0	8207 21-7	12341 81 2-9	15291 35
26	44°11-1	144 46° 3-9	1564 50°13-5	4391 57°11-6	8277 67°33-8	12405 81°17-9	15320 34
27	12-0	156 6-9	1600 19-0	4449 20-2	8347 46-0	12468 32-9	15349 33
28	12-9	168 9-9	1637 24-5	4507 28-9	8417 58-3	12531 47-9	15376 32
29	13-8	180 13-0	1674 30-1	4565 37-6	8487 68 10-6	12593 82 3-0	15403 31
30	14-8	192 16-1	1712 35-7	4623 46-4	8557 23-0	12655 18-1	15430 30
31	44°15-8	205 46°19-2	1749 50°41-4	4681 57°55-2	8627 68 35-4	12717 82°33-3	15455 29
32	16-8	219 22-3	1787 47-1	4740 58 4-1	8697 47-9	12779 48-4	15480 28
33	17-9	233 25-5	1825 52-9	4800 13-1	8768 69 0-4	12840 83 3-6	15504 27
34	19-0	247 28-8	1864 58-7	4860 22-1	8838 13-0	12901 18-8	15527 26
35	20-1	261 32-1	1904 51 4-5	4920 31-2	8909 25-7	12961 34-1	15549 25
36	44°21-3	277 46°35-4	1943 51°10-5	4980 58°40-3	8980 69°38-4	13021 83°49-3	15571 24
37	22-5	293 38-7	1983 16-4	5041 49-5	9050 51-2	13081 84 4-6	15590 23
38	23-7	308 42-1	2023 22-4	5101 58-8	9120 70 4-0	13140 19-9	15610 22
39	25-0	325 45 5	2064 28-5	5162 59 8-1	9191 16-9	13199 35-2	15629 21
40	26-3	342 49-0	2106 34-6	5223 17-5	9261 29-8	13257 50-6	15647 20
41	44°27-6	358 46°52-5	2148 51°40-7	5285 59°26-9	9332 70°42-8	13315 85° 6-0	15664 19
42	29-0	376 56-1	2190 46-9	5347 36-4	9403 55-9	13372 21-3	15680 18
43	30-4	394 59-7	2232 53-2	5409 46-0	9473 71 9-0	13429 36-7	15695 17
44	31-9	413 47 3-3	2274 59-5	5471 55-6	9544 22-2	13486 52-1	15709 16
45	33-3	432 7-0	2317 52 5-8	5533 60 5-3	9614 35-4	13541 86 7-5	15723 15
46	44°34-8	451 47°10-7	2361 52°12-2	5596 60°15-0	9685 71°48-6	13597 86°23-0	15736 14
47	36-4	471 14-4	2405 18-7	5659 24-8	9755 72 1-9	13652 38-4	15748 13
48	38-0	491 18-2	2449 25-2	5723 34-6	9825 15-3	13706 53-9	15759 12
49	39-6	512 22-0	2494 31-8	5787 44-5	9896 28-8	13760 87 9-3	15769 11
50	41-2	533 25-9	2539 38-4	5851 54-5	9966 42-2	13813 24-8	15779 10
51	44°42-9	554 47°29-8	2584 52°45-0	5915 61° 4-6	10037 72°55-7	13866 87°40-3	15787 9
52	44-6	576 33-8	2629 51-7	5979 14-7	10107 73 9-3	13919 55-8	15794 8
53	46-4	599 37-8	2675 58-5	6043 24-8	10177 23-0	13971 88 11-3	15801 7
54	48-1	621 41-8	2722 53 5-3	6108 35-0	10247 36-7	14022 26-8	15807 6
55	50-0	645 45-9	2769 12-2	6173 45-3	10317 50-4	14072 42-4	15812 5
56	44°51-8	668 47°50-0	2816 53°19-1	6238 61°55-6	10387 74° 4-2	14122 88°57-9	15817 4
57	53-7	692 54-1	2863 26-0	6303 62 6-0	10457 18-0	14172 89 13-4	15820 3
58	55-6	716 58-3	2911 33-0	6369 16-5	10526 31-9	14220 28-9	15822 2
59	57-6	741 48 2-6	2960 40-1	6435 27-0	10596 45-8	14269 44-4	15823 1
60	59-6	766 6-9	3008 47-2	6501 37-6	10666 59-8	14317 90 0-0	15823 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	44°15.0	0	45°14.6	760	48°21.8	2981	54° 1.5	6437	62°49.8	10550	75° 7.3	14146	60
1	15.0	0	16.6	785	26.1	3029	8.7	6503	63 0.4	10618	21.2	14193	59
2	15.1	1	18.7	811	30.5	3078	15.9	6568	11.0	10686	35.1	14239	58
3	15.2	2	20.8	837	34.9	3127	23.2	6634	21.7	10754	49.2	14284	57
4	15.3	3	22.9	863	39.3	3177	30.5	6700	32.5	10822	76 3.2	14328	56
5	15.4	5	25.1	890	43.8	3227	37.8	6767	43.3	10890	17.3	14372	55
6	44°15.6	8	45°27.3	918	48°48.3	3277	54°45.3	6833	63°54.2	10958	76°31.4	14415	54
7	15.8	10	29.5	946	52.9	3328	52.7	6900	64 5.2	11025	45.6	14458	53
8	16.0	14	31.8	974	57.5	3379	55 0.3	6966	16.2	11093	59.8	14500	52
9	16.3	17	34.1	1003	49 2.2	3430	7.8	7033	27.2	11160	77 14.1	14541	51
10	16.6	21	36.4	1032	6.9	3481	15.5	7100	38.4	11227	28.4	14581	50
11	44°17.0	26	45°38.8	1061	49°11.7	3533	55°23.2	7168	64°49.5	11293	77°42.8	14621	49
12	17.4	31	41.2	1091	16.5	3585	30.9	7235	65 0.8	11360	57.1	14660	48
13	17.8	36	43.7	1121	21.3	3638	38.7	7303	12.1	11426	78 11.6	14699	47
14	18.2	41	46.2	1152	26.2	3691	46.6	7370	23.4	11492	26.0	14737	46
15	18.7	48	48.7	1183	31.1	3744	54.5	7438	34.8	11558	40.5	14774	45
16	44°19.2	54	45°51.3	1214	49°36.1	3797	56° 2.5	7506	65°46.3	11623	78°55.1	14810	44
17	19.7	61	53.9	1246	41.1	3851	10.5	7574	57.9	11688	79 9.6	14846	43
18	20.3	68	56.5	1278	46.2	3905	18.6	7642	66 9.5	11754	24.2	14881	42
19	20.9	77	59.2	1311	51.3	3960	26.7	7711	21.1	11818	38.9	14915	41
20	21.5	85	46 1.9	1344	56.4	4015	34.9	7779	32.8	11883	53.6	14948	40
21	44°22.2	94	46° 4.6	1378	50° 1.6	4070	56°43.1	7848	66°44.6	11947	80° 8.3	14981	39
22	22.9	102	7.4	1412	6.8	4125	51.4	7916	56.4	12011	23.0	15013	38
23	23.7	112	10.3	1446	12.1	4181	59.8	7985	67 8.3	12075	37.8	15044	37
24	24.4	122	13.1	1480	17.5	4237	57 8.2	8054	20.3	12138	52.6	15075	36
25	25.2	133	16.0	1515	22.9	4294	16.7	8123	32.3	12201	81 7.5	15104	35
26	44°26.1	143	46°18.9	1551	50 28.3	4350	57°25.2	8192	67°44.4	12264	81°22.3	15133	34
27	26.9	155	21.9	1587	33.7	4407	33.8	8261	56.5	12326	37.2	15161	33
28	27.9	166	24.9	1623	39.3	4464	42.4	8330	68 8.7	12388	52.2	15189	32
29	28.8	178	28.0	1659	44.8	4522	51.1	8399	20.9	12450	82 7.1	15215	31
30	29.8	190	31.0	1696	50.4	4580	59.9	8469	33.2	12511	22.1	15241	30
31	44°30.8	204	46°34.2	1734	50°56.1	4638	58° 8.7	8538	68°45.5	12572	82°37.1	15266	29
32	31.8	217	37.3	1771	51 1.8	4696	17.6	8608	57.9	12633	52.2	15290	28
33	32.9	231	40.5	1809	7.6	4755	26.5	8677	69 10.4	12693	83 7.2	15314	27
34	34.0	245	43.8	1848	13.4	4814	35.5	8747	23.0	12753	22.3	15336	26
35	35.1	259	47.0	1887	19.2	4873	44.5	8816	35.6	12812	37.4	15358	25
36	44°36.3	274	46°50.3	1926	51°25.1	4933	58°53.7	8886	69°48.2	12871	83°52.5	15379	24
37	37.5	290	53.7	1966	31.0	4993	59 2.8	8955	70 0.8	12930	84 7.7	15399	23
38	38.7	306	57.1	2006	37.0	5053	12.0	9025	13.6	12988	22.9	15418	22
39	40.0	322	47 0.5	2046	43.1	5113	21.3	9095	26.4	13046	38.1	15437	21
40	41.3	339	4.0	2087	49.2	5174	30.6	9164	39.3	13103	53.3	15454	20
41	44°42.6	356	47° 7.5	2128	51°55.3	5235	59°40.0	9234	70°52.2	13160	85° 8.5	15471	19
42	44.0	373	11.0	2170	52 1.5	5296	49.5	9304	71 5.1	13217	23.8	15487	18
43	45.4	391	14.6	2212	7.7	5357	59.0	9373	18.1	13273	39.0	15502	17
44	46.9	409	18.2	2254	14.0	5419	60 8.6	9443	31.2	13328	54.3	15517	16
45	48.5	428	21.9	2297	20.4	5481	18.2	9513	44.3	13383	86 9.5	15530	15
46	44°49.9	447	47°25.6	2340	52°26.8	5543	60°27.9	9582	71°57.5	13438	86°24.8	15542	14
47	51.4	467	29.4	2383	33.2	5605	37.6	9652	72 10.7	13492	40.2	15554	13
48	53.0	487	33.2	2427	39.7	5668	47.5	9721	24.0	13546	55.5	15565	12
49	54.6	508	37.0	2471	46.2	5731	57.3	9791	37.4	13599	87 10.8	15575	11
50	56.2	528	40.8	2516	52.8	5794	61 7.3	9860	50.8	13651	26.2	15584	10
51	44°57.9	550	47°44.7	2561	52°59.5	5857	61°17.3	9930	73° 4.2	13703	87°41.5	15592	9
52	59.6	571	48.7	2606	53 6.2	5921	27.3	9999	17.7	13755	56.9	15600	8
53	45 1.4	593	52.7	2652	12.9	5985	37.4	10068	31.2	13806	88 12.3	15606	7
54	3.2	616	56.7	2698	19.7	6049	47.6	10137	44.8	13856	27.6	15612	6
55	5.0	639	48 0.8	2744	26.5	6113	57.8	10206	58.4	13906	43.0	15617	5
56	45° 6.8	662	48° 4.9	2791	53°33.4	6177	62° 8.1	10274	74°12.1	13955	88°58.4	15621	4
57	8.7	686	9.1	2838	40.4	6242	18.4	10344	25.8	14004	89 13.8	15624	3
58	10.6	710	13.3	2885	47.4	6307	28.8	10413	39.6	14052	29.2	15626	2
59	12.6	735	17.5	2933	54.4	6372	39.3	10481	53.4	14100	44.6	15627	1
60	14.6	760	21.8	2981	54 1.5	6437	49.8	10550	75 7.3	14146	90 0.0	15628	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	44°30.0	0 45°29.6	753 48°36.7	2954 54°15.8	6374 63° 2.0	10435 75°14.7	13978 60
1	30.0	0 31.6	778 41.0	3002 22.9	6438 12.5	10502 28.5	14023 59
2	30.1	1 33.7	804 45.3	3050 30.1	6503 23.1	10569 42.3	14068 58
3	30.2	2 35.8	830 49.8	3098 37.3	6568 33.7	10636 56.2	14112 57
4	30.3	3 37.9	856 54.2	3147 44.6	6634 44.4	10703 76 10.2	14156 56
5	30.4	5 40.1	883 58.7	3197 52.0	6699 55.2	10770 24.2	14199 55
6	44°30.6	8 45°42.3	910 49° 3.2	3247 54°59.4	6765 64° 6.0	10837 76°38.2	14242 54
7	30.8	10 44.5	938 7.8	3297 55 6.8	6831 16.9	10904 52.3	14284 53
8	31.0	14 46.8	966 12.4	3348 14.3	6897 27.9	10970 77 6.4	14325 52
9	31.3	17 49.1	994 17.0	3398 21.9	6963 38.9	11036 20.5	14365 51
10	31.6	21 51.4	1022 21.7	3449 29.5	7029 49.9	11102 34.7	14405 50
11	44°32.0	26 45°53.8	1051 49°26.5	3500 55°37.2	7096 65° 1.0	11168 77°49.0	14444 49
12	32.4	30 56.2	1081 31.3	3552 44.9	7162 12.2	11233 78 3.2	14483 48
13	32.8	36 58.7	1111 36.1	3605 52.7	7229 23.5	11299 17.5	14521 47
14	33.2	41 46 1.2	1141 41.0	3657 56 0.5	7296 34.8	11364 31.9	14558 46
15	33.7	47 3.7	1173 45.9	3710 8.4	7363 46.1	11428 46.3	14595 45
16	44°34.2	54 46° 6.3	1204 49°50.9	3762 56°16.4	7430 65°57.5	11493 79° 0.7	14630 44
17	34.8	61 8.9	1235 55.9	3815 24.3	7497 66 9.0	11557 15.2	14665 43
18	35.4	68 11.5	1267 50 0.9	3869 32.4	7565 20.5	11621 29.7	14699 42
19	35.9	76 14.2	1300 6.0	3923 40.5	7632 32.1	11685 44.2	14733 41
20	36.6	84 16.9	1333 11.2	3977 48.7	7699 43.8	11748 58.7	14766 40
21	44°37.2	93 46°19.6	1366 50°16.4	4032 56°56.9	7767 66°55.5	11812 80°13.3	14798 39
22	37.9	102 22.4	1399 21.6	4087 57 5.2	7835 67 7.2	11875 28.0	14830 38
23	38.7	111 25.2	1433 26.9	4142 13.5	7903 19.0	11938 42.6	14861 37
24	39.4	121 28.1	1467 32.2	4197 21.9	7971 30.9	12000 57.3	14891 36
25	40.2	131 31.0	1502 37.6	4253 30.3	8039 42.8	12062 81 12.0	14920 35
26	44°41.1	142 46°33.9	1537 50°43.0	4309 57°38.8	8107 67°54.8	12124 81°26.8	14948 34
27	42.0	154 36.9	1573 48.5	4365 47.3	8176 68 6.9	12185 41.5	14976 33
28	42.9	164 39.9	1608 54.0	4422 56.0	8244 19.0	12246 56.4	15003 32
29	43.8	177 42.9	1644 59.5	4479 58 4.6	8312 31.2	12307 82 11.2	15029 31
30	44.8	189 46.0	1681 51 5.1	4537 13.4	8381 43.4	12367 26.0	15054 30
31	44°45.8	202 46°49.1	1718 51°10.8	4594 58°22.1	8449 68°55.6	12427 82°40.9	15079 29
32	46.8	215 52.3	1756 16.5	4652 31.0	8518 69 8.0	12487 55.8	15102 28
33	47.9	229 55.5	1794 22.2	4709 39.9	8587 80.3	12547 83 10.8	15125 27
34	49.0	243 58.7	1832 28.0	4768 48.8	8656 32.8	12606 25.7	15148 26
35	50.1	257 47 2.0	1870 33.8	4827 57.8	8724 45.3	12665 40.7	15169 25
36	44°51.3	272 47° 5.4	1909 51°39.7	4885 59° 6.9	8793 69°57.9	12723 83°55.7	15189 24
37	52.5	287 8.7	1948 45.7	4944 16.0	8861 70 10.4	12780 84 10.7	15209 23
38	53.7	303 12.1	1988 51.6	5004 25.2	8930 23.1	12837 25.8	15228 22
39	55.0	319 15.5	2028 57.7	5064 34.4	8999 35.8	12894 40.8	15247 21
40	56.3	336 18.9	2068 52 3.7	5124 43.7	9067 48.6	12951 55.9	15264 20
41	44°57.6	353 47°22.4	2109 52° 9.9	5184 59°53.1	9136 71° 1.4	13007 85°11.0	15280 19
42	59.0	370 26.0	2151 16.0	5245 60 2.5	9205 14.3	13063 26.1	15296 18
43	45 0.4	388 29.6	2192 22.3	5305 12.0	9274 27.2	13118 41.2	15311 17
44	1.9	405 33.2	2234 28.5	5366 21.5	9343 40.2	13173 56.4	15325 16
45	3.3	425 36.9	2276 34.9	5428 31.1	9411 53.2	13227 86 11.5	15338 15
46	45° 4.9	444 47°40.6	2319 52°41.2	5489 60°40.7	9480 72° 6.3	13280 86°26.7	15350 14
47	6.4	463 44.3	2362 47.7	5551 50.4	9549 19.4	13333 41.9	15362 13
48	8.0	483 48.1	2406 54.1	5613 61 0.2	9618 32.6	13386 57.1	15373 12
49	9.6	504 51.9	2449 53 0.7	5675 10.0	9686 45.9	13438 87 12.3	15382 11
50	11.2	524 55.8	2493 7.2	5737 19.9	9755 59.2	13490 27.5	15391 10
51	45°12.9	545 47°59.7	2538 53°13.9	5800 61°29.8	9823 73°12.5	13541 87°42.7	15399 9
52	14.6	566 48 3.6	2583 20.5	5863 39.9	9891 25.9	13592 58.0	15407 8
53	16.4	588 7.6	2628 27.3	5926 49.9	9959 39.3	13642 88 13.2	15413 7
54	18.2	610 11.6	2673 34.0	5990 62 0.0	10027 52.8	13692 28.4	15418 6
55	20.0	633 15.7	2719 40.9	6053 10.2	10095 74 6.3	13741 43.7	15423 5
56	45°21.8	656 48°19.8	2766 53°47.7	6116 62°20.4	10163 74°19.9	13790 88°59.0	15427 4
57	23.7	680 24.0	2812 54.7	6181 30.7	10232 33.5	13837 89 14.2	15430 3
58	25.6	703 28.2	2859 54 1.7	6245 41.1	10300 47.2	13884 29.5	15432 2
59	27.6	728 32.4	2906 8.7	6309 51.5	10367 75 0.9	13931 44.7	15433 1
60	29.6	753 36.7	2954 15.8	6374 63 2.0	10435 14.7	13978 90 0.0	15434 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	44°45'0	0 45°44'6	746 48°51'5	2927 54°30'0	6310 63°14'1	10320 75°22'0	13810 60
1	45'0	0 46'6	771 55'8	2974 37'1	6374 24'5	10386 35'8	13855 59
2	45'1	1 48'7	797 49 0'2	3022 44'3	6438 35'1	10453 49'5	13899 58
3	45'2	2 50'8	822 4'6	3070 51'5	6503 45'7	10519 76 3'3	13943 57
4	45'3	3 52'9	848 9'0	3119 58'7	6567 56'3	10585 17'1	13986 56
5	45'4	5 55'1	875 13'5	3168 55 6'1	6632 64 7'0	10651 31'0	14028 55
6	44°45'6	8 45°57'3	902 49°18'0	3217 55°13'5	6697 64°17'8	10717 76°44'9	14070 54
7	45'8	10 59'5	929 22'6	3267 20'9	6762 28'6	10782 58'9	14111 53
8	46'0	13 46 1'8	957 27'2	3317 28'4	6827 39'5	10848 77 12'9	14152 52
9	46'3	17 4'1	985 31'9	3367 35'9	6892 50'4	10913 26'9	14192 51
10	46'6	21 6'4	1014 36'6	3417 43'5	6958 65 1'5	10978 41'0	14231 50
11	44°47'0	25 46° 8'8	1043 49°41'3	3468 55°51'1	7024 65°12'5	11043 77°55'1	14269 49
12	47'4	30 11'2	1072 46'1	3519 58'9	7090 23'6	11107 78 9'3	14307 48
13	47'8	35 13'7	1102 50'9	3571 56 6'6	7155 34'8	11172 23'5	14344 47
14	48'2	41 16'2	1132 55'8	3623 14'4	7222 46'0	11236 37'7	14381 46
15	48'7	47 18'7	1162 50 0'7	3675 22'3	7288 57'3	11300 52'0	14417 45
16	44°49'2	53 46°21'3	1193 50° 5'6	3727 56°30'2	7354 66° 8'6	11364 79° 6'3	14452 44
17	49'7	60 23'9	1224 10'6	3780 38'1	7420 20'1	11427 20'6	14486 43
18	50'3	68 26'5	1256 15'7	3833 46'2	7487 31'5	11490 35'0	14520 42
19	50'9	75 29'2	1288 20'8	3886 54'3	7554 43'0	11553 49'4	14553 41
20	51'5	83 31'9	1321 25'9	3940 57 2'4	7621 54'6	11615 80 3'8	14586 40
21	44°52'2	92 46°34'6	1354 50°31'1	3994 57°10'6	7687 67° 6'2	11678 80°18'3	14617 39
22	52'9	101 37'4	1387 36'3	4048 18'8	7754 17'9	11740 32'8	14648 38
23	53'7	110 40'2	1420 41'6	4103 27'1	7822 29'7	11802 47'4	14678 37
24	54'4	120 43'1	1454 46'9	4158 35'5	7889 41'5	11863 81 1'9	14708 36
25	55'2	130 46'0	1489 52'3	4213 43'9	7956 53'3	11924 16'5	14736 35
26	44°56'0	141 46°48'9	1523 50°57'7	4268 57°52'4	8023 68° 5'3	11985 81°31'2	14764 34
27	56'9	152 51'9	1558 51 3'1	4324 58 0'9	8091 17'3	12046 45'8	14792 33
28	57'9	163 54'9	1594 8'6	4380 9'4	8158 29'3	12106 82 0'5	14818 32
29	58'8	175 57'9	1630 14'2	4437 18'1	8226 41'4	12166 15'2	14844 31
30	59'8	187 47 1'0	1666 19'8	4493 26'8	8293 53'5	12225 29'9	14868 30
31	45° 0'8	200 47° 4'1	1703 51°25'4	4550 58°35'5	8361 69° 5'7	12284 82°44'7	14893 29
32	1'8	213 7'3	1740 31'1	4607 44'3	8429 17'9	12343 59'5	14916 28
33	2'9	227 10'5	1777 36'8	4665 53'2	8496 30'2	12402 83 14'3	14939 27
34	4'0	241 13'7	1815 42'6	4723 59 2'1	8564 42'6	12460 29'1	14961 26
35	5'1	255 17'0	1853 48'4	4781 11'1	8632 55'0	12517 44'0	14981 25
36	45° 6'3	270 47°20'3	1892 51°54'3	4839 59°20'1	8700 70° 7'5	12575 83°58'8	15002 24
37	7'5	285 23'6	1931 52 0'2	4897 29'2	8768 20'0	12632 84 13'7	15021 23
38	8'7	300 27'0	1970 6'2	4956 38'3	8836 32'6	12688 28'6	15040 22
39	10'0	316 30'4	2010 12'2	5015 47'5	8903 45'2	12744 43'6	15058 21
40	11'3	333 33'9	2050 18'3	5075 56'8	8971 57'9	12800 58'5	15075 20
41	45°12'6	350 47°37'4	2090 52°24'4	5134 60° 6'1	9039 71°10'6	12855 85°13'5	15091 19
42	14'0	367 40'9	2131 30'6	5194 15'4	9107 23'4	12909 28'5	15106 18
43	15'4	384 44'5	2172 36'8	5254 24'9	9175 36'2	12964 43'5	15121 17
44	16'9	402 48'1	2214 43'0	5314 34'4	9243 49'1	13018 58'5	15135 16
45	18'4	421 51'8	2256 49'3	5375 43'9	9311 72 2'0	13071 86 13'5	15148 15
46	45°19'9	440 47°55'5	2298 52°55'7	5436 60°53'5	9378 72°15'0	13124 86°28'6	15160 14
47	21'4	459 59'2	2341 53 2'1	5497 61 3'2	9446 28'1	13176 43'6	15171 13
48	23'0	479 48 3'0	2383 8'6	5558 12'9	9514 41'2	13228 58'7	15181 12
49	24'6	499 6'8	2427 15'1	5619 22'7	9581 54'3	13280 87 13'7	15191 11
50	26'3	519 10'7	2471 21'6	5681 32'5	9649 73 7'5	13330 28'8	15200 10
51	45°27'9	540 48°14'6	2515 53°28'2	5743 61°42'4	9716 73°20'8	13380 87°43'9	15208 9
52	29'6	561 18'5	2559 34'9	5805 52'4	9784 34'0	13430 59'0	15215 8
53	31'4	583 22'5	2604 41'6	5868 62 2'4	9851 47'4	13480 88 14'1	15221 7
54	33'2	605 26'5	2649 48'3	5930 12'4	9919 74 0'8	13529 29'2	15227 6
55	35'0	628 30'6	2694 55'2	5993 22'6	9986 14'2	13577 44'4	15231 5
56	45°36'8	652 48°34'7	2739 54° 2'0	6056 62°32'7	10053 74°27'7	13625 88°59'5	15235 4
57	38'7	674 38'9	2786 8'9	6119 43'0	10120 41'2	13672 89 14'6	15238 3
58	40'6	698 43'0	2833 15'9	6183 53'3	10187 54'8	13719 29'7	15240 2
59	42'6	722 47'3	2880 22'9	6246 63 3'7	10253 75 8'4	13765 44'8	15241 1
60	44'6	746 51'5	2927 30'0	6310 14'1	10320 22'0	13810 90 0'0	15242 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

Taboa XII

45° 00'

Table XII

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	45° 0-0	0 45°59-6	740 49° 6-4	2899 54°44-1	6247 63°26-1	10206 75°29-4	13643 60
1	0-0	0 46 1-6	764 10-7	2946 51-2	6310 36-5	10272 42-9	13688 59
2	0-1	1 3-7	789 15-1	2994 58-4	6374 47-0	10337 56-6	13731 58
3	0-2	2 5-8	815 19-4	3042 55 5-6	6437 57-5	10402 76 10-3	13774 57
4	0-3	3 7-9	841 23-9	3090 12-8	6501 64 8-1	10467 24-0	13816 56
5	0-4	5 10-1	867 28-3	3138 20-1	6565 18-8	10532 37-8	13858 55
6	45° 0-6	8 46°12-3	894 49°32-9	3187 55°27-5	6629 64°29-5	10597 76°51-6	13900 54
7	0-8	10 14-5	921 37-4	3236 34-9	6693 40-3	10662 77 5-4	13940 53
8	1-0	13 16-8	948 42-0	3285 42-4	6758 51-1	10726 19-3	13980 52
9	1-3	17 19-1	976 46-7	3335 49-9	6823 65 1-9	10791 33-3	14019 51
10	1-6	21 21-4	1005 51-4	3385 57-4	6887 12-9	10855 47-2	14058 50
11	45° 2-0	25 46°23-8	1034 49°56-1	3435 56° 5-1	6952 65°23-9	10919 78° 1-2	14095 49
12	2-4	30 26-2	1063 50 0-9	3486 12-7	7017 34-9	10982 15-3	14132 48
13	2-8	35 28-7	1092 5-7	3537 20-5	7082 46-0	11046 29-4	14169 47
14	3-2	40 31-2	1122 10-5	3588 28-2	7148 57-2	11109 43-5	14205 46
15	3-7	46 33-7	1152 15-4	3640 36-1	7213 66 8-4	11172 57-6	14240 45
16	45° 4-2	53 46°36-2	1183 50°20-4	3692 56°44-0	7279 66°19-7	11234 79°11-8	14275 44
17	4-7	60 38-8	1214 25-4	3744 51-9	7344 31-1	11297 26-1	14309 43
18	5-3	67 41-5	1245 30-4	3797 59-9	7410 42-5	11359 40-3	14342 42
19	5-9	74 44-1	1277 35-5	3849 57 8-0	7476 53-9	11421 54-6	14374 41
20	6-6	83 46-8	1309 40-6	3902 16-1	7542 67 5-4	11482 80 8-9	14406 40
21	45° 7-2	91 46°49-6	1341 50°45-8	3956 57°24-2	7608 67°17-0	11544 80°23-3	14437 39
22	7-9	100 52-4	1374 51-0	4010 32-4	7674 28-6	11606 37-7	14468 38
23	8-7	109 55-2	1408 56-3	4064 40-7	7740 40-3	11667 52-1	14497 37
24	9-4	119 58-0	1441 51 1-6	4118 49-0	7807 52-0	11727 81 6-5	14526 36
25	10-2	129 47 0-9	1475 7-0	4172 57-4	7873 68 3-8	11787 21-0	14555 35
26	45°11-1	139 47° 3-9	1509 51°12-3	4227 58° 5-8	7940 68°15-6	11847 81°35-5	14582 34
27	11-9	150 6-8	1544 17-8	4282 14-3	8006 27-5	11907 50-0	14609 33
28	12-9	162 9-8	1580 23-3	4338 22-9	8073 39-5	11966 82 4-6	14635 32
29	13-8	173 12-9	1615 28-8	4394 31-5	8139 51-5	12025 19-2	14660 31
30	14-8	186 15-9	1651 34-4	4450 40-1	8206 69 3-5	12084 33-8	14684 30
31	45°15-8	198 47°19-1	1688 51°40-0	4506 58°48-8	8273 69°15-6	12142 82°48-4	14708 29
32	16-8	211 22-2	1725 45-7	4563 57-6	8340 27-8	12200 83 3-1	14731 28
33	17-9	225 25-4	1762 51-4	4620 59 6-4	8407 40-0	12257 17-8	14754 27
34	19-0	239 28-6	1799 57-2	4677 15-3	8474 52-3	12314 32-5	14775 26
35	20-1	253 31-9	1837 52 3-0	4734 24-2	8541 70 4-6	12371 47-2	14796 25
36	45°21-3	267 47°35-2	1875 52° 8-9	4792 59°33-2	8608 70°17-0	12428 84° 2-0	14816 24
37	22-5	283 38-6	1913 14-8	4850 42-3	8675 29-5	12484 16-7	14835 23
38	23-7	298 41-9	1952 20-7	4908 51-4	8742 42-0	12540 31-5	14853 22
39	25-0	314 45-4	1992 26-7	4967 60 0-5	8809 54-5	12595 46-3	14870 21
40	26-3	330 48-8	2031 32-8	5025 9-7	8875 71 7-1	12650 85 1-1	14887 20
41	45°27-6	347 47°52-3	2071 52°38-8	5084 60°19-0	8942 71°19-7	12704 85°16-0	14903 19
42	29-0	363 55-9	2112 45-0	5143 28-4	9009 32-4	12758 30-8	14918 18
43	30-4	381 59-4	2153 51-2	5203 37-7	9076 45-2	12811 45-7	14932 17
44	31-9	399 48 3-1	2194 57-5	5263 47-2	9143 58-0	12864 86 0-6	14946 16
45	33-4	417 6-7	2235 53 3-8	5323 56-7	9210 72 10-8	12916 15-5	14959 15
46	45°34-9	436 48°10-4	2277 53°10-1	5383 61° 6-2	9277 72°23-7	12968 86°30-4	14971 14
47	36-4	455 14-1	2319 16-5	5443 15-9	9344 36-7	13020 45-3	14982 13
48	38-0	474 17-9	2362 22-9	5503 23-5	9411 49-7	13071 87 0-2	14992 12
49	39-5	494 21-7	2405 29-4	5564 35-3	9478 73 2-7	13122 15-2	15002 11
50	41-2	514 25-6	2448 36-0	5625 45-1	9544 15-8	13172 30-1	15010 10
51	45°42-9	535 48°29-5	2491 53°42-6	5686 61°54-9	9611 73°29-0	13221 87°45-1	15018 9
52	44-6	556 33-4	2535 49-2	5747 62 4-8	9677 42-2	13270 88 0-1	15025 8
53	46-4	578 37-4	2580 55-9	5809 14-8	9744 55-4	13319 15-0	15031 7
54	48-2	600 41-4	2624 54 2-6	5871 24-8	9810 74 8-7	13367 30-0	15036 6
55	50-0	623 45-5	2669 9-4	5934 34-9	9876 22-0	13414 45-0	15041 5
56	45°51-8	645 48°49-6	2715 54°16-3	5996 62°45-0	9942 74°35-4	13461 89° 0-0	15045 4
57	53-7	668 53-7	2761 23-2	6058 55-2	10008 48-8	13508 15-0	15048 3
58	55-6	692 57-9	2807 30-1	6120 63 5-4	10074 75 2-3	13553 30-0	15050 2
59	57-6	716 49 2-1	2853 37-1	6183 15-7	10140 15-8	13598 45-0	15051 1
60	59-6	740 6-4	2899 44-1	6247 26-1	10206 29-4	13643 90 0-0	15051 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	45°15.0	0	46°14.6	733	49°21.2	2873	54°58.3	6184	63°38.1	10093	75°36.6	13478	60
1	15.0	0	16.6	758	25.5	2919	55 5.3	6246	48.4	10157	50.1	13522	59
2	15.1	1	18.6	783	29.9	2966	12.5	6309	58.8	10222	76 3.6	13565	58
3	15.2	2	20.7	808	34.3	3013	19.7	6372	64 9.3	10286	17.2	13607	57
4	15.3	3	22.9	833	38.7	3061	26.9	6435	19.9	10350	30.8	13649	56
5	15.4	5	25.1	860	43.2	3109	34.2	6498	30.5	10414	44.5	13690	55
6	45°15.6	7	46°27.3	886	49°47.7	3157	55°41.5	6562	64°41.1	10478	76°58.2	13730	54
7	15.8	10	29.5	913	52.2	3206	48.9	6625	51.8	10542	77 11.9	13770	53
8	16.0	13	31.8	940	56.8	3255	56.3	6689	65 2.6	10606	25.7	13809	52
9	16.3	17	34.1	968	50 1.5	3304	56 3.8	6753	13.4	10669	39.6	13847	51
10	16.7	20	36.4	996	6.1	3353	11.3	6817	24.3	10732	53.4	13885	50
11	45°17.0	25	46°38.8	1024	50°10.9	3403	56°18.9	6881	65°35.2	10795	78° 7.3	13923	49
12	17.4	30	41.2	1053	15.6	3453	26.6	6945	46.2	10858	21.3	13960	48
13	17.8	35	43.6	1082	20.4	3504	34.3	7009	57.3	10920	35.2	13996	47
14	18.2	40	46.1	1112	25.3	3554	42.0	7074	66 8.3	10983	49.2	14031	46
15	18.7	46	48.7	1142	30.2	3605	49.8	7138	19.5	11045	79 3.3	14065	45
16	45°19.2	53	46°51.2	1172	50°35.1	3657	56°57.7	7203	66°30.7	11107	79°17.3	14099	44
17	19.7	59	53.8	1203	40.1	3708	57 5.6	7268	42.0	11168	31.5	14133	43
18	20.3	66	56.4	1234	45.1	3760	13.6	7333	53.3	11230	45.6	14165	42
19	20.9	74	59.1	1265	50.2	3813	21.6	7398	67 4.7	11291	59.8	14197	41
20	21.6	82	47 1.8	1297	55.3	3865	29.7	7463	16.1	11351	80 14.0	14229	40
21	45°22.2	90	47° 4.6	1329	51° 0.5	3918	57°37.8	7528	67°27.6	11412	80°28.2	14259	39
22	22.9	99	7.3	1362	5.7	3971	46.0	7594	39.2	11472	42.5	14289	38
23	23.7	108	10.1	1395	11.0	4025	54.2	7659	50.8	11532	56.8	14318	37
24	24.5	118	13.0	1428	16.2	4079	58 2.5	7725	68 2.4	11592	81 11.1	14347	36
25	25.3	128	15.9	1462	21.6	4133	10.9	7790	14.1	11651	25.5	14375	35
26	45°26.1	138	47°18.8	1496	51°27.0	4187	58°19.3	7856	68°25.9	11710	81°39.8	14402	34
27	26.9	149	21.8	1531	32.4	4242	27.7	7922	37.7	11769	54.3	14428	33
28	27.9	160	24.8	1566	37.9	4297	36.2	7988	49.6	11827	82 8.7	14453	32
29	28.8	172	27.8	1601	43.4	4352	44.8	8053	69 1.5	11886	23.2	14478	31
30	29.8	184	30.9	1636	49.0	4407	53.4	8119	13.5	11943	37.6	14502	30
31	45°30.8	197	47°34.0	1672	51°54.6	4463	59° 2.1	8185	69°25.6	12001	82°52.2	14526	29
32	31.8	209	37.2	1709	52 0.3	4519	10.8	8251	37.6	12058	83 6.7	14548	28
33	32.9	223	40.4	1746	6.0	4575	19.6	8317	49.8	12114	21.2	14570	27
34	34.0	236	43.6	1783	11.7	4631	28.5	8383	70 2.0	12171	35.8	14591	26
35	35.1	251	46.8	1820	17.5	4688	37.3	8449	14.2	12227	50.4	14611	25
36	45°36.3	265	47°50.2	1858	52°23.4	4745	59°46.3	8516	70°26.5	12282	84° 5.0	14631	24
37	37.5	280	53.5	1896	29.3	4802	55.3	8582	38.9	12337	19.7	14650	23
38	38.7	295	56.9	1934	35.2	4860	60 4.4	8648	51.3	12392	34.3	14668	22
39	40.0	311	48 0.3	1973	41.2	4918	13.5	8714	71 3.7	12446	49.0	14685	21
40	41.3	327	3.7	2013	47.3	4976	22.7	8780	16.3	12500	85 3.7	14701	20
41	45°42.6	344	48° 7.2	2052	52°53.3	5034	60°31.9	8846	71°28.8	12553	85°18.4	14717	19
42	44.0	360	10.8	2092	59.5	5093	41.2	8912	41.4	12606	33.2	14732	18
43	45.4	378	14.3	2133	53 5.7	5151	50.5	8978	54.1	12659	47.9	14746	17
44	46.9	395	18.0	2174	11.9	5210	59.9	9044	72 6.8	12711	86 2.7	14759	16
45	48.4	414	21.6	2215	18.2	5270	61 9.4	9110	19.5	12763	17.4	14772	15
46	45°49.8	432	48°25.3	2256	53°24.5	5329	61°18.9	9176	72°32.3	12814	86°32.2	14784	14
47	51.4	451	29.0	2298	30.8	5389	28.5	9242	45.2	12865	47.0	14795	13
48	53.0	470	32.8	2340	37.3	5449	38.1	9308	58.1	12915	87 1.8	14805	12
49	54.6	490	36.6	2382	43.8	5509	47.8	9374	73 11.1	12964	16.6	14814	11
50	56.2	510	40.5	2425	50.3	5569	57.5	9440	24.1	13014	31.4	14822	10
51	45°57.9	531	48°44.4	2468	53°56.9	5630	62° 7.3	9505	73°37.1	13063	87°46.3	14830	9
52	59.6	552	48.3	2512	54 3.5	5691	17.2	9571	50.2	13111	88 1.1	14837	8
53	46 1.4	573	52.3	2556	10.2	5752	27.1	9637	74 3.3	13159	15.9	14843	7
54	3.2	595	56.3	2600	16.9	5813	37.1	9702	16.5	13207	30.8	14848	6
55	5.0	617	49 0.3	2645	23.6	5874	47.1	9767	29.8	13253	45.7	14853	5
56	46° 6.8	639	49° 4.5	2690	54°30.5	5936	62°57.2	9833	74°43.0	13299	89° 0.5	14856	4
57	8.7	662	8.6	2735	37.3	5997	63 7.3	9898	56.4	13345	15.4	14859	3
58	10.6	686	12.8	2780	44.3	6059	17.5	9963	75 9.7	13390	30.3	14861	2
59	12.6	709	17.0	2826	51.2	6121	27.8	10028	23.1	13435	45.1	14862	1
60	14.6	733	21.2	2873	58.3	6184	38.1	10093	36.6	13478	90 0.0	14863	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	45°30·0	0 46°29·6	726 49°36·1	2846 55°12·3	6121 63°50·0	9980 75°43·8	13314 60
1	30·0	0 31·6	751 40·4	2892 19·4	6182 64 0·3	10044 57·2	13357 59
2	30·1	1 33·6	776 44·7	2938 26·5	6245 10·7	10107 76 10·6	13400 58
3	30·2	2 35·7	801 49·1	2985 33·7	6307 21·1	10171 24·1	13441 57
4	30·3	3 37·9	826 53·5	3032 40·9	6369 31·6	10234 37·6	13482 56
5	30·4	5 40·0	852 57·9	3079 48·1	6432 42·1	10297 51·2	13522 55
6	45°30·6	7 46°42·2	878 50° 2·4	3127 55°55·4	6494 64°52·7	10360 77° 4·8	13562 54
7	30·8	10 44·5	905 7·0	3175 56 2·8	6557 65 3·3	10423 18·4	13601 53
8	31·0	13 46·7	931 11·6	3223 10·2	6620 14·0	10486 32·1	13640 52
9	31·3	16 49·0	959 16·2	3272 17·7	6683 24·8	10548 45·8	13678 51
10	31·6	20 51·4	987 20·9	3321 25·2	6746 35·6	10610 59·5	13715 50
11	45°32·0	25 46°53·7	1015 50°25·6	3371 56°32·7	6809 65°46·5	10672 78°13·3	13752 49
12	32·4	29 56·2	1043 30·4	3421 40·4	6873 57·4	10734 27·2	13788 48
13	32·8	34 58·6	1072 35·2	3470 48·1	6937 66 8·4	10796 41·0	13823 47
14	33·2	40 47 1·1	1102 40·0	3520 55·8	7000 19·4	10857 54·9	13858 46
15	33·7	45 3·6	1132 44·9	3571 57 3·6	7064 30·5	10918 79 8·8	13892 45
16	45°34·2	52 47° 6·2	1162 50°49·8	3622 57°11·4	7128 66°41·7	10979 79°22·8	13925 44
17	34·7	58 8·8	1192 54·9	3673 19·3	7192 52·9	11040 36·8	13958 43
18	35·3	66 11·4	1222 59·9	3724 27·2	7256 67 4·1	11101 50·8	13991 42
19	35·9	73 14·1	1254 51 4·9	3776 35·2	7321 15·4	11161 80 4·9	14022 41
20	36·6	81 16·8	1286 10·0	3828 43·2	7385 26·8	11221 19·0	14052 40
21	45°37·2	89 47°19·5	1318 51°15·1	3881 57°51·3	7449 67°38·2	11280 80°33·1	14082 39
22	37·9	98 22·3	1350 20·4	3933 59·5	7513 49·7	11339 47·2	14112 38
23	38·7	107 25·1	1382 25·6	3986 58 7·7	7578 68 1·2	11398 81 1·4	14141 37
24	39·4	117 28·0	1415 30·9	4040 16·0	7643 12·8	11457 15·6	14169 36
25	40·3	127 30·8	1448 36·2	4093 24·3	7708 24·4	11516 29·9	14196 35
26	45°41·1	137 47°33·8	1482 51°41·6	4146 58°32·6	7773 68°36·1	11574 81°44·1	14222 34
27	42·0	148 36·7	1517 47·0	4200 41·1	7839 47·9	11632 58·4	14248 33
28	42·9	159 39·7	1551 52·5	4255 49·5	7904 59·7	11689 82 12·7	14274 32
29	43·8	171 42·8	1586 58·0	4309 58·1	7968 69 11·5	11747 27·1	14298 31
30	44·8	182 45·8	1621 52 3·5	4363 59 6·7	8033 23·4	11804 41·4	14321 30
31	45°45·8	195 47°48·9	1657 52° 9·2	4419 59°15·3	8098 69°35·4	11860 82°55·8	14344 29
32	46·8	208 52·1	1694 14·8	4474 24·0	8163 47·4	11916 83 10·2	14366 28
33	47·9	221 55·3	1730 20·5	4530 32·7	8228 59·5	11972 24·7	14388 27
34	49·0	234 58·5	1766 26·2	4586 41·5	8293 70 11·6	12027 39·1	14409 26
35	50·1	248 48 1·8	1803 32·0	4642 50·4	8359 23·7	12082 53·6	14429 25
36	45°51·3	263 48° 5·1	1841 52°37·9	4698 59°59·3	8424 70°36·0	12137 84° 8·1	14448 24
37	52·5	277 8·4	1878 43·8	4755 60 8·3	8489 48·2	12191 22·6	14466 23
38	53·7	293 11·8	1916 49·7	4812 17·3	8554 71 0·6	12245 37·2	14484 22
39	55·0	308 15·2	1955 55·7	4869 26·4	8620 12·9	12299 51·7	14501 21
40	56·3	324 18·7	1994 53 1·7	4926 35·5	8685 25·3	12352 85 6·3	14517 20
41	45°57·6	341 48°22·2	2033 53° 7·8	4984 60°44·7	8750 71°37·8	12404 85°20·9	14533 19
42	59·0	357 25·7	2073 13·9	5042 54·0	8816 50·3	12456 35·5	14547 18
43	46 0·4	374 29·2	2113 20·0	5100 61 3·3	8881 72 2·9	12508 50·1	14561 17
44	1·9	392 32·9	2153 26·2	5159 12·6	8946 15·5	12560 86 4·7	14574 16
45	3·3	410 36·5	2194 32·5	5217 22·1	9011 28·2	12611 19·4	14586 15
46	46° 4·8	428 48°40·2	2235 53°38·8	5276 61°31·5	9076 72°40·9	12661 86°34·0	14598 14
47	6·4	447 43·9	2277 45·2	5335 41·0	9141 53·7	12711 48·7	14608 13
48	8·0	466 47·7	2318 51·6	5394 50·6	9206 73 6·5	12760 87 3·4	14618 12
49	9·6	485 51·5	2360 58·0	5454 62 0·2	9271 19·3	12809 18·0	14627 11
50	11·2	506 55·4	2403 54 4·6	5513 9·9	9336 32·2	12858 32·7	14636 10
51	46°12·9	526 48°59·2	2446 54°11·1	5573 62°19·7	9401 73°45·2	12906 87°47·4	14644 9
52	14·6	547 49 3·2	2489 17·7	5634 29·5	9465 58·2	12953 88 2·1	14650 8
53	16·4	568 7·1	2532 24·4	5694 39·4	9530 74 11·2	13000 16·9	14656 7
54	18·1	589 11·1	2575 31·1	5754 49·3	9595 24·3	13047 31·6	14661 6
55	20·0	611 15·2	2619 37·8	5815 59·3	9659 37·5	13093 46·3	14666 5
56	46°21·8	634 49°19·3	2664 54°44·6	5876 63° 9·3	9724 74°50 6	13139 89° 1·0	14669 4
57	23·7	656 23·4	2709 51·5	5937 19·4	9788 75 3·9	13183 15·8	14672 3
58	25·6	679 27·6	2754 58·4	5999 29·5	9852 17·1	13227 30·5	14674 2
59	27·6	703 31·8	2800 55 5·3	6060 39·7	9916 30·4	13271 45·3	14675 1
60	29·6	726 36·1	2846 12·3	6121 50·0	9980 43·8	13314 90 0·0	14676 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	45°45'0	0	46°44'5	720	49°50'9	2819	55°26'4	6058	64° 1'8	9868	75°50'9	13152	60
1	45'0	0	46'6	744	55'1	2864	33'4	6119	12'1	9931	76 4'2	13194	59
2	45'1	1	48'6	768	59'5	2910	40'5	6181	22'4	9993	17'6	13236	58
3	45'2	2	50'7	793	50 3'8	2956	47'6	6242	32'7	10056	30'9	13277	57
4	45'3	3	52'8	819	8'3	3003	54'8	6304	43'2	10118	44'3	13317	56
5	45'4	5	55'0	844	12'7	3050	56 2'0	6365	53'7	10180	57'8	13356	55
6	45°45'6	7	46°57'2	870	50°17'2	3097	56° 9'3	6427	65° 4'2	10242	77°11'3	13395	54
7	45'8	10	59'4	896	21'8	3145	16'7	6489	14'8	10304	24'8	13434	53
8	46'0	13	47 1'7	923	26'3	3193	24'1	6551	25'4	10366	38'4	13472	52
9	46'3	16	4'0	950	31'0	3241	31'5	6614	36'1	10428	52'0	13509	51
10	46'6	20	6'3	978	35'6	3289	39'0	6676	46'9	10489	78 5'6	13546	50
11	45°47'0	24	47° 8'7	1006	50°40'3	3338	56°46'5	6739	65°57'7	10550	78°19'3	13582	49
12	47'4	29	11'1	1034	45'1	3387	54'1	6801	66 8'5	10611	33'0	13617	48
13	47'8	34	13'6	1062	49'9	3437	57 1'8	6864	19'4	10672	46'8	13652	47
14	48'2	39	16'1	1091	54'7	3486	9'5	6927	30'4	10732	79 0'5	13686	46
15	48'7	45	18'6	1121	59'6	3536	17'2	6990	41'5	10793	14'4	13720	45
16	45°49'2	52	47°21'2	1151	51° 4'5	3587	57°25'0	7053	66°52'5	10853	79°28'2	13753	44
17	49'7	58	23'7	1181	9'5	3637	32'9	7116	67 3'7	10913	42'1	13785	43
18	50'3	65	26'4	1211	14'5	3688	40'8	7179	14'8	10972	56'0	13816	42
19	50'9	73	29'0	1242	19'5	3740	48'8	7243	26'1	11032	80 9'9	13848	41
20	51'5	80	31'7	1273	24'6	3791	56'8	7307	37'4	11091	23'9	13878	40
21	45°52'2	89	47°34'5	1305	51°29'8	3843	58° 4'8	7371	67°48'7	11149	80°37'9	13907	39
22	52'9	97	37'3	1337	34'9	3895	13'0	7434	68 0'2	11208	52'0	13936	38
23	53'7	106	40'0	1369	40'2	3947	21'1	7498	11'6	11266	81 6'0	13964	37
24	54'4	116	42'9	1402	45'5	4000	29'4	7562	23'1	11324	20'1	13992	36
25	55'2	126	45'8	1435	50'8	4053	37'6	7626	34'7	11381	34'2	14019	35
26	45°56'1	136	47°48'7	1469	51°56'2	4106	58°46'0	7690	68°46'3	11439	81°48'3	14045	34
27	56'9	147	51'7	1503	52 1'6	4159	54'4	7754	58'0	11496	82 2'5	14070	33
28	57'8	158	54'7	1537	7'0	4213	59 2'8	7818	69 9'7	11552	16'7	14095	32
29	58'8	169	57'7	1571	12'5	4267	11'3	7882	21'5	11609	31'0	14119	31
30	59'8	181	48 0'8	1606	18'1	4321	19'8	7947	33'3	11665	45'2	14142	30
31	46° 0'8	193	48° 3'9	1642	52°23'7	4376	59°28'4	8011	69°45'2	11720	82°59'5	14165	29
32	1'8	206	7'0	1677	29'3	4430	37'1	8075	57'1	11776	83 13'8	14187	28
33	2'9	219	10'2	1713	35'0	4485	45'8	8140	70 9'1	11831	28'1	14208	27
34	4'0	232	13'4	1750	40'7	4541	54'6	8204	21'1	11885	42'4	14228	26
35	5'1	246	16'7	1787	46'5	4596	60 3'4	8268	33'2	11939	56'8	14248	25
36	46° 6'3	260	48°20'0	1824	52°52'3	4652	60°12'3	8333	70°45'3	11993	84°11'1	14266	24
37	7'5	275	23'3	1861	58'2	4708	21'2	8397	57'5	12047	25'5	14284	23
38	8'7	290	26'7	1899	53 4'1	4764	30'2	8462	71 9'7	12100	39'9	14301	22
39	10'0	305	30'1	1937	10'1	4821	39'2	8526	22'0	12152	54'4	14318	21
40	11'3	321	33'6	1976	16'1	4878	48'3	8590	34'4	12204	85 8'8	14334	20
41	46°12'6	337	48°37'0	2015	53°22'1	4935	60°57'5	8655	71°46'8	12256	85°23'3	14349	19
42	14'0	354	40'6	2054	28'2	4992	61 6'7	8719	59'2	12308	37'8	14364	18
43	15'4	371	44'1	2093	34'4	5049	16'0	8783	72 11'7	12359	52'3	14378	17
44	16'9	388	47'8	2133	40'6	5107	25'3	8848	24'2	12409	86 6'8	14390	16
45	18'3	406	51'4	2174	46'8	5165	34'7	8912	36'8	12459	21'3	14402	15
46	46°19'8	424	48°55'1	2214	53°53'1	5223	61°44'0	8976	72°49'4	12509	86°35'8	14414	14
47	21'4	443	58'8	2255	59'5	5281	53'5	9040	73 2'1	12558	50'2	14424	13
48	22'9	462	49 2'6	2296	54 5'9	5340	62 3'1	9104	14'8	12607	87 4'9	14434	12
49	24'6	481	6'4	2338	12'3	5399	12'7	9169	27'6	12655	19'5	14443	11
50	26'2	501	10'2	2380	18'8	5458	22'3	9233	40'4	12703	34'0	14451	10
51	46°27'9	521	49°14'1	2422	54°25'3	5517	62°32'0	9296	73°53'2	12750	87°48'6	14459	9
52	29'6	542	18'0	2465	32'0	5576	41'8	9360	74 6'1	12797	88 3'2	14465	8
53	31'3	563	22'0	2508	38'6	5636	51'6	9424	19'1	12843	17'8	14471	7
54	33'1	584	26'0	2551	45'2	5696	63 1'4	9488	32'1	12889	32'4	14476	6
55	34'9	606	30'0	2595	52'0	5756	11'4	9551	45'1	12934	47'0	14480	5
56	46°36'8	628	49°34'1	2639	54°58'8	5816	63°21'3	9615	74°58'2	12979	89° 1'6	14484	4
57	38'7	650	38'2	2684	55 5'6	5876	31'4	9678	75 11'3	13023	16'2	14487	3
58	40'6	673	42'4	2728	12'5	5937	41'5	9741	24'5	13066	30'8	14489	2
59	42'5	696	46'6	2773	19'4	5997	51'6	9805	37'7	13109	45'4	14490	1
60	44'5	720	50'9	2819	26'4	6058	64 1'8	9868	50'9	13152	90 0'0	14490	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H						
0	46° 0' 0	0 46° 59' 5	713	50° 5' 6	2792	55° 40' 4	5996	64° 13' 6	9756	75° 58' 0	12991	60
1	0' 0	0 47 1' 5	737	9' 9	2837	47' 4	6056	23' 8	9818	76 11' 2	13032	59
2	0' 1	1 3' 6	761	14' 2	2882	54' 4	6116	34' 1	9880	24' 4	13073	58
3	0' 2	2 5' 7	786	18' 6	2928	56 1' 6	6177	44' 4	9942	37' 7	13113	57
4	0' 3	3 7' 8	811	23' 0	2974	8' 7	6238	54' 7	10003	51' 0	13153	56
5	0' 4	5 10' 0	836	27' 5	3021	15' 9	6299	65 5' 1	10064	77 4' 4	13192	55
6	46° 0' 6	7 47° 12' 2	862	50° 31' 9	3067	56° 23' 2	6360	65° 15' 6	10125	77° 17' 8	13230	54
7	0' 8	10 14' 4	888	36' 5	3114	30' 5	6421	26' 1	10187	31' 2	13268	53
8	1' 0	13 16' 7	915	41' 1	3162	37' 9	6483	36' 7	10248	44' 6	13305	52
9	1' 3	16 19' 0	942	45' 7	3210	45' 3	6545	47' 4	10308	58' 1	13342	51
10	1' 6	20 21' 3	969	50' 3	3258	52' 8	6607	58' 1	10369	78 11' 7	13378	50
11	46° 2' 0	24 47° 23' 7	996	50° 55' 0	3306	57° 0' 3	6668	66° 8' 8	10429	78° 25' 2	13413	49
12	2' 4	29 26' 1	1024	59' 8	3355	7' 8	6730	19' 6	10489	38' 8	13448	48
13	2' 8	33 28' 5	1053	51 4' 6	3404	15' 4	6792	30' 4	10549	52' 5	13483	47
14	3' 2	39 31' 0	1081	9' 4	3453	23' 1	6854	41' 4	10608	79 6' 1	13517	46
15	3' 7	45 33' 5	1110	14' 3	3503	30' 8	6916	52' 3	10668	19' 8	13549	45
16	46° 4' 2	51 47° 36' 1	1140	51° 19' 2	3552	57° 38' 6	6979	67° 3' 3	10727	79° 33' 6	13581	44
17	4' 7	58 38' 7	1170	24' 1	3602	46' 4	7041	14' 4	10786	47' 3	13613	43
18	5' 3	64 41' 3	1201	29' 1	3652	54' 3	7104	25' 5	10845	80 1' 1	13644	42
19	5' 9	72 44' 0	1231	34' 2	3703	58 2' 3	7167	36' 7	10903	15' 0	13675	41
20	6' 6	80 46' 7	1262	39' 3	3754	10' 2	7229	47' 9	10961	28' 8	13704	40
21	46° 7' 2	88 47° 49' 4	1293	51° 44' 4	3805	58° 18' 3	7292	67° 59' 2	11019	80° 42' 7	13733	39
22	7' 9	96 52' 2	1325	49' 6	3856	26' 4	7355	68 10' 5	11077	56' 6	13762	38
23	8' 7	105 55' 0	1357	54' 8	3908	34' 5	7418	21' 9	11134	81 10' 6	13790	37
24	9' 4	115 57' 8	1389	52 0' 0	3960	42' 7	7481	33' 4	11191	24' 6	13817	36
25	10' 2	124 48 0' 7	1422	5' 4	4013	50' 9	7544	44' 9	11248	38' 6	13843	35
26	46° 11' 1	135 48° 3' 6	1455	52° 10' 7	4065	58° 59' 3	7607	68° 56' 4	11304	81° 52' 6	13869	34
27	11' 9	145 6' 6	1489	16' 1	4118	59 7' 6	7671	69 8' 0	11360	82 6' 6	13894	33
28	12' 9	156 9' 6	1523	21' 6	4171	16' 0	7734	19' 6	11416	20' 7	13918	32
29	13' 8	168 12' 6	1557	27' 0	4225	24' 5	7797	31' 3	11472	34' 8	13941	31
30	14' 8	179 15' 7	1592	32' 6	4278	33' 0	7861	43' 1	11527	49' 0	13964	30
31	46° 15' 8	192 48° 18' 8	1627	52° 38' 2	4332	59° 41' 6	7924	69° 54' 9	11582	83° 3' 1	13986	29
32	16' 8	204 21' 9	1662	43' 8	4386	50' 2	7988	70 6' 7	11636	17' 3	14008	28
33	17' 9	217 25' 1	1697	49' 5	4441	58' 8	8051	18' 6	11690	31' 5	14029	27
34	19' 0	230 28' 3	1733	55' 2	4495	60 7' 6	8115	30' 6	11744	45' 7	14049	26
35	20' 1	244 31' 6	1770	53 0' 9	4550	16' 4	8178	42' 6	11797	59' 9	14068	25
36	46° 21' 3	258 48° 34' 9	1807	53° 6' 7	4605	60° 25' 2	8242	70° 54' 6	11851	84° 14' 2	14087	24
37	22' 5	273 38' 2	1844	12' 6	4661	34' 1	8305	71 6' 7	11903	28' 4	14104	23
38	23' 7	287 41' 6	1881	18' 5	4717	43' 0	8369	18' 9	11954	42' 7	14121	22
39	25' 0	303 45' 0	1919	24' 4	4773	52' 0	8433	31' 1	12007	57' 0	14138	21
40	26' 3	318 48' 4	1957	30' 4	4829	61 1' 1	8496	43' 3	12058	85 11' 3	14154	20
41	46° 27' 6	334 48° 51' 9	1996	53° 36' 5	4885	61° 10' 2	8560	71° 55' 6	12109	85° 25' 7	14169	19
42	29' 0	351 55' 4	2035	42' 6	4942	19' 4	8623	72 8' 0	12159	40' 0	14183	18
43	30' 4	368 59' 0	2074	48' 7	4999	28' 6	8687	20' 4	12210	54' 4	14196	17
44	31' 8	385 49 2' 6	2113	54' 9	5056	37' 8	8750	32' 8	12259	86 8' 8	14208	16
45	33' 3	402 6' 2	2153	54 1' 1	5113	47' 2	8814	45' 3	12309	23' 2	14220	15
46	46° 34' 8	420 49° 9' 9	2194	54° 7' 4	5171	61° 56' 5	8877	72° 57' 8	12357	86° 37' 6	14231	14
47	36' 4	439 13' 6	2234	13' 7	5228	62 6' 0	8940	73 10' 4	12406	52' 0	14242	13
48	37' 9	458 17' 4	2275	20' 1	5286	15' 5	9004	23' 0	12454	87 6' 4	14252	12
49	39' 6	477 21' 2	2316	26' 5	5344	25' 0	9067	35' 7	12502	20' 8	14260	11
50	41' 2	497 25' 0	2357	33' 0	5402	34' 6	9130	48' 4	12549	35' 3	14268	10
51	46° 42' 9	516 49° 28' 9	2399	54° 39' 5	5460	62° 44' 3	9193	74° 1' 2	12595	87° 49' 7	14275	9
52	44' 6	537 32' 8	2442	46' 1	5519	54' 0	9256	14' 0	12641	88 4' 2	14282	8
53	46' 3	557 36' 8	2484	52' 7	5578	63 3' 7	9319	26' 9	12687	18' 6	14288	7
54	48' 1	579 40' 8	2527	59' 4	5637	13' 6	9382	39' 8	12732	33' 1	14293	6
55	49' 9	600 44' 8	2571	55 6' 1	5696	23' 4	9444	52' 7	12776	47' 6	14297	5
56	46° 51' 8	622 49° 48' 9	2614	55° 12' 8	5756	63° 33' 3	9507	75° 5' 7	12820	89° 2' 1	14300	4
57	53' 7	645 53' 0	2658	19' 6	5816	43' 3	9569	18' 7	12864	16' 5	14303	3
58	55' 6	667 57' 2	2702	26' 5	5876	53' 4	9631	31' 8	12907	31' 0	14305	2
59	57' 5	690 50 1' 4	2747	33' 4	5936	64 3' 5	9694	44' 9	12949	45' 5	14306	1
60	59' 5	713 5' 6	2792	40' 4	5996	13' 6	9756	58' 0	12991	90 0' 0	14307	0
	11 H	10 H	9 H	8 H	7 H	6 H	m					

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	46°15-0	0 47°14-5	707 50°20-4	2765 55°54-3	5933 64°25-3	9645 76° 5-1	12831 60
1	15-0	0 16-5	731 24-7	2810 56 1-3	5993 35-5	9706 18-1	12871 59
2	15-1	1 18-5	755 29-0	2855 8-3	6053 45-7	9767 31-3	12911 58
3	15-2	2 20-6	779 33-4	2900 15-4	6113 55-9	9828 44-4	12951 57
4	15-3	3 22-8	804 37-8	2946 22-6	6173 65 6-2	9889 57-7	12990 56
5	15-4	5 24-9	829 42-2	2992 29-8	6233 16-6	9949 77 10-9	13028 55
6	46°15-6	7 47°27-1	854 50°46-7	3038 56°37-0	6294 65°27-0	10009 77°24-2	13066 54
7	15-8	10 29-4	880 51-2	3084 44-3	6354 37-5	10070 37-5	13103 53
8	16-1	13 31-6	906 55-8	3131 51-6	6415 48-0	10130 50-8	13140 52
9	16-3	16 33-9	933 51 0-4	3178 59-0	6476 58-6	10189 78 4-2	13176 51
10	16-6	20 36-3	960 5-0	3226 57 6-5	6537 66 9-2	10249 17-6	13212 50
11	46°17-0	24 47°38-6	987 51° 9-7	3274 57°14-0	6598 66°19-9	10308 78°31-1	13247 49
12	17-4	28 41-0	1015 14-5	3322 21-5	6659 30-6	10368 44-6	13281 48
13	17-8	33 43-5	1043 19-2	3370 29-1	6720 41-4	10427 58-1	13314 47
14	18-2	39 46-0	1071 24-0	3419 36-7	6781 52-2	10485 79 11-7	13347 46
15	18-7	44 48-5	1100 28-9	3468 44-4	6843 67 3-1	10544 25-3	13380 45
16	46°19-2	51 47°51-0	1130 51°33-8	3517 57°52-2	6905 67°14-1	10602 79°38-9	13412 44
17	19-7	57 53-6	1159 38-7	3567 58 0-0	6966 25-1	10660 52-6	13443 43
18	20-3	64 56-3	1189 43-8	3617 7-8	7028 36-1	10718 80 6-2	13473 42
19	20-9	71 58-9	1219 48-8	3667 15-7	7090 47-2	10776 20-0	13503 41
20	21-5	79 48 1-5	1250 53-9	3717 23-7	7152 58-4	10833 33-7	13533 40
21	46°22-2	87 48° 4-3	1281 51°59-0	3768 58°31-7	7214 68° 9-6	10890 80°47-5	13561 39
22	22-9	96 7-1	1312 52 4-2	3819 39-7	7276 20-9	10947 81 1-3	13589 38
23	23-7	104 9-9	1344 9-4	3870 47-9	7338 32-2	11003 15-1	13616 37
24	24-4	114 12-8	1376 14-6	3921 56-0	7401 43-6	11059 29-0	13643 36
25	25-2	123 15-6	1409 19-9	3973 59 4-2	7463 55-0	11115 42-9	13669 35
26	46°26-1	134 48°18-5	1442 52°25-3	4025 59°12-5	7525 69° 6-4	11171 81°56-8	13694 34
27	26-9	144 21-5	1475 30-6	4077 20-8	7588 18-0	11226 82 10-7	13718 33
28	27-8	155 24-5	1508 36-1	4130 29-2	7650 29-5	11281 24-7	13742 32
29	28-8	166 27-5	1542 41-5	4183 37-6	7713 41-1	11336 38-7	13765 31
30	29-8	178 30-6	1577 47-1	4236 46-1	7775 52-8	11390 52-7	13788 30
31	46°30-8	190 48°33-7	1611 52°52-6	4289 59°54-6	7838 70° 4-5	11444 83° 6-7	13810 29
32	31-8	202 36-8	1646 58-3	4342 60 3-2	7900 16-3	11497 20-7	13831 28
33	32-9	215 40-0	1681 53 3-9	4396 11-8	7963 28-1	11551 34-8	13851 27
34	34-0	228 43-2	1717 9-6	4450 20-5	8026 40-0	11604 48-9	13871 26
35	35-1	242 46-5	1753 15-4	4505 29-3	8089 51-9	11656 84 3-0	13890 25
36	46°36-3	256 48°49-8	1790 53°21-1	4559 60°38-1	8152 71° 3-9	11708 84°17-2	13908 24
37	37-5	270 53-1	1826 27-0	4614 46-9	8214 15-9	11760 31-3	13926 23
38	38-7	285 56-5	1863 32-9	4669 55-8	8277 28-0	11811 45-5	13942 22
39	40-0	300 59-9	1901 38-8	4724 61 4-8	8340 40-1	11862 59-6	13958 21
40	41-3	315 49 3-3	1939 44-8	4780 13-8	8402 52-2	11913 85 13-8	13974 20
41	46°42-6	331 49° 6-8	1977 53°50-8	4836 61°22-9	8465 72° 4-5	11963 85°28-1	13988 19
42	44-0	348 10-3	2015 56-9	4892 32-0	8528 16-7	12013 42-3	14002 18
43	45-4	364 13-9	2054 54 3-0	4948 41-2	8590 29-0	12062 56-5	14015 17
44	46-8	381 17-5	2093 9-2	5004 50-4	8653 41-4	12111 86 10-8	14028 16
45	48-3	399 21-1	2133 15-4	5061 59-6	8715 53-8	12160 25-0	14039 15
46	46°49-8	417 49°24-8	2173 54°21-6	5118 62° 9-0	8778 73° 6-2	12208 86°39-3	14050 14
47	51-3	435 28-5	2213 27-9	5175 18-4	8841 18-7	12256 53-6	14061 13
48	52-9	454 32-2	2253 34-3	5232 27-8	8903 31-3	12303 87 7-9	14070 12
49	54-5	473 36-0	2294 40-7	5289 37-3	8965 43-8	12349 22-2	14079 11
50	56-2	492 39-9	2335 47-2	5347 46-9	9027 56-5	12395 36-5	14086 10
51	46°57-8	512 49°43-7	2377 54°53-7	5405 62°56-5	9090 74° 9-1	12441 87°50-8	14094 9
52	59-6	532 47-7	2419 55 0-2	5463 63 6-1	9152 21-8	12487 88 5-2	14100 8
53	47 1-3	552 51-6	2461 6-8	5521 15-8	9214 34-6	12532 19-5	14106 7
54	3-1	573 55-6	2503 13-4	5579 25-6	9276 47-4	12576 33-9	14111 6
55	4-9	595 59-6	2546 20-1	5638 35-4	9338 75 0-2	12620 48-2	14115 5
56	47° 6-7	616 50° 3-7	2589 55°26-9	5697 63°45-3	9399 75°13-1	12663 89° 2-6	14118 4
57	8-6	639 7-8	2632 33-7	5756 55-2	9461 26-0	12705 16-9	14121 3
58	10-6	661 12-0	2676 40-5	5815 64 5-2	9522 39-0	12748 31-3	14123 2
59	12-5	684 16-2	2720 47-4	5874 15-2	9584 52-0	12790 45-6	14124 1
60	14-5	707 20-4	2765 54-3	5933 25-3	9645 76 5-1	12831 90 0-0	14124 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	46°30'0	0	47°29'4	701	50°35'1	2738	56° 8'3	5871	64°37'0	9534	76°12'0	12672	60
1	30'0	0	31'5	724	39'4	2782	15'2	5930	47'1	9595	25'0	12712	59
2	30'1	1	33'5	748	43'7	2827	22'2	5990	57'2	9655	38'1	12751	58
3	30'2	2	35'6	772	48'1	2872	29'3	6049	65 7'4	9715	51'1	12790	57
4	30'3	3	37'7	796	52'5	2917	36'4	6108	17'7	9775	77 4'2	12828	56
5	30'4	5	39'9	821	56'9	2962	43'6	6168	28'0	9834	17'4	12866	55
6	46°30'6	7	47°42'1	846	51° 1'4	3008	56°50'8	6227	65°38'3	9894	77°30'5	12903	54
7	30'8	10	44'3	871	5'9	3054	58'0	6287	48'7	9953	43'7	12940	53
8	31'0	13	46'6	897	10'4	3100	57 5'4	6346	59'2	10012	57'0	12976	52
9	31'3	16	48'9	924	15'0	3147	12'7	6407	66 9'7	10071	78 10'3	13012	51
10	31'6	19	51'2	951	19'7	3194	20'1	6467	20'3	10130	23'6	13047	50
11	46°32'0	23	47°53'6	978	51°24'4	3242	57°27'6	6527	66°30'9	10189	78°36'9	13081	49
12	32'4	28	56'0	1006	29'1	3290	35'1	6588	41'6	10247	50'3	13115	48
13	32'8	33	58'4	1034	33'9	3337	42'7	6648	52'3	10305	79 3'7	13148	47
14	33'2	38	48 0'9	1062	38'7	3385	50'3	6709	67 3'1	10363	17'2	13180	46
15	33'7	44	3'4	1090	43'5	3434	57'9	6770	13'9	10421	30'7	13212	45
16	46°34'2	50	48° 6'0	1119	51°48'4	3482	58° 5'7	6831	67°24'8	10478	79°44'2	13244	44
17	34'7	56	8'6	1148	53'3	3531	13'4	6892	35'7	10535	57'7	13274	43
18	35'3	64	11'2	1178	58'3	3581	21'3	6953	46'7	10592	80 11'3	13304	42
19	35'9	71	13'8	1208	52 3'4	3631	29'1	7014	57'7	10649	24'9	13333	41
20	36'5	78	16'5	1238	8'4	3680	37'1	7075	68 8'8	10705	38'6	13362	40
21	46°37'2	87	48°19'3	1269	52°13'5	3730	58°45'0	7136	68°19'9	10761	80°52'2	13390	39
22	37'9	95	22'0	1300	18'7	3780	53'0	7197	31'1	10817	81 5'9	13417	38
23	38'7	103	24'8	1331	23'9	3831	59 1'1	7259	42'4	10873	19'6	13444	37
24	39'4	113	27'7	1363	29'1	3882	9'3	7320	53'7	10928	33'4	13471	36
25	40'2	122	30'6	1396	34'4	3933	17'4	7382	69 5'0	10983	47'1	13496	35
26	46°41'1	132	48°33'5	1429	52°39'7	3985	59°25'7	7443	69°16'4	11038	82° 0'9	13521	34
27	41'9	142	36'4	1461	45'1	4037	33'9	7505	27'8	11092	14'7	13545	33
28	42'8	154	39'4	1494	50'5	4088	42'3	7567	39'3	11146	28'6	13569	32
29	43'8	164	42'4	1528	56'0	4140	50'7	7629	50'9	11200	42'5	13591	31
30	44'7	176	45'5	1562	53 1'5	4193	59'1	7690	70 2'5	11254	56'3	13613	30
31	46°45'8	188	48°48'6	1596	53° 7'1	4246	60' 7'6	7752	70°14'1	11307	83°10'3	13634	29
32	46'8	200	51'7	1630	12'7	4299	16'2	7814	25'8	11359	24'2	13655	28
33	47'8	213	54'9	1665	18'3	4352	24'7	7876	37'5	11412	38'1	13675	27
34	49'0	226	58'1	1701	24'0	4405	33'4	7938	49'3	11464	52'1	13695	26
35	50'1	240	49 1'4	1737	29'7	4459	42'1	8000	71 1'2	11516	84 6'1	13713	25
36	46°51'3	253	49° 4'6	1773	53°35'5	4513	60°50'9	8062	71°13'1	11567	84°20'1	13731	24
37	52'5	267	8'0	1809	41'3	4567	59'7	8123	25'0	11618	34'1	13748	23
38	53'7	282	11'3	1846	47'2	4622	61 8'5	8185	37'0	11669	48'2	13765	22
39	55'0	297	14'7	1883	53'1	4677	17'4	8247	49'0	11719	85 2'2	13781	21
40	56'3	312	18'2	1920	59'1	4731	26'4	8309	72 1'1	11768	16'3	13796	20
41	46°57'6	328	49°21'6	1958	54° 5'1	4786	61°35'4	8371	72°13'2	11818	85°30'4	13810	19
42	59'0	345	25'2	1996	11'2	4842	44'5	8433	25'4	11867	44'5	13824	18
43	47 0'4	361	28'7	2034	17'3	4897	53'6	8494	37'6	11916	58'6	13837	17
44	1'8	377	32'3	2073	23'4	4953	62 2'8	8556	49'9	11964	86 12'8	13849	16
45	3'3	395	35'9	2112	29'6	5009	12'1	8618	73 2'2	12012	26'9	13860	15
46	47° 4'8	413	49°39'6	2152	54°35'8	5065	62°21'4	8679	73°14'5	12059	86°41'1	13871	14
47	6'3	431	43'3	2192	42'1	5121	30'7	8741	26'9	12106	55'2	13881	13
48	7'9	449	47'1	2232	48'5	5177	40'1	8803	39'4	12152	87 9'4	13890	12
49	9'5	468	50'8	2272	54'9	5234	49'5	8864	51'9	12198	23'6	13899	11
50	11'1	487	54'7	2313	55 1'3	5291	59'0	8926	74 4'4	12244	37'8	13907	10
51	47°12'8	507	49°58'5	2354	55° 7'8	5349	63° 8'6	8987	74°17'0	12289	87'52'0	13914	9
52	14'5	527	50 2'4	2395	14'3	5406	18'2	9048	29'6	12333	88 6'2	13920	8
53	16'3	547	6'4	2437	20'9	5463	27'9	9109	42'3	12378	20'4	13926	7
54	18'1	568	10'4	2479	27'5	5521	37'6	9171	55'0	12421	34'6	13931	6
55	19'9	589	14'4	2521	34'2	5579	47'3	9232	75 7'7	12464	48'8	13935	5
56	47°21'7	610	50°18'5	2564	55°40'9	5638	63°57'2	9293	75°20'5	12507	89° 3'1	13938	4
57	23'6	633	22'6	2607	47'7	5696	64 7'0	9354	33'3	12549	17'3	13940	3
58	25'5	655	26'7	2650	54'5	5754	17'0	9415	46'2	12590	31'5	13942	2
59	27'5	677	30'9	2694	56 1'3	5812	27'0	9474	59'1	12631	45'8	13943	1
60	29'4	701	35'1	2738	8'3	5871	37'0	9534	76 12'0	12672	90 0'0	13944	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	46°45'0	0	47°44'4	694	50°49'9	2711	56°22'1	5810	64°48'6	9425	76°19'0	12514	60
1	45'0	0	46'4	717	54'1	2755	29'1	5868	58'6	9484	31'9	12553	59
2	45'1	1	48'5	741	58'4	2799	36'1	5926	65 8'7	9544	44'8	12592	58
3	45'2	2	50'6	765	51 2'8	2843	43'1	5984	18'8	9603	57'8	12631	57
4	45'3	3	52'7	789	7'2	2888	50'2	6043	29'0	9662	77 10'8	12669	56
5	45'4	5	54'8	813	11'6	2933	57'3	6102	39'3	9720	23'8	12706	55
6	46°45'6	7	47°57'0	838	51°16'1	2978	57° 4'5	6161	65°49'6	9779	77°36'8	12742	54
7	45'8	9	59'3	864	20'6	3024	11'8	6220	59'9	9837	50'0	12778	53
8	46'1	12	48 1'5	890	25'2	3070	19'0	6279	66 10'3	9896	78 3'1	12813	52
9	46'3	16	3'8	916	29'8	3116	26'4	6338	20'8	9954	16'3	12848	51
10	46'6	19	6'2	942	34'4	3163	33'8	6398	31'3	10012	29'5	12883	50
11	46°47'0	23	48° 8'5	969	51°39'0	3209	57°41'2	6458	66°41'8	10069	78°42'7	12917	49
12	47'4	28	10'9	996	43'7	3256	48'7	6517	52'4	10127	56'0	12950	48
13	47'8	33	13'3	1024	48'5	3304	56'2	6577	67 3'1	10184	79 9'3	12982	47
14	48'2	38	15'9	1052	53'3	3351	58 3'8	6637	13'8	10241	22'7	13014	46
15	48'7	44	18'4	1080	58'1	3399	11'4	6697	24'6	10298	36'0	13046	45
16	46°49'2	50	48 20'9	1108	52° 3'0	3448	58°19'1	6757	67°35'4	10354	79°49'4	13076	44
17	49'7	56	23'5	1137	7'9	3496	26'9	6817	46'3	10411	80 2'9	13106	43
18	50'3	63	26'1	1167	12'9	3545	34'7	6877	57'2	10467	16'3	13136	42
19	50'9	70	28'8	1197	17'9	3594	42'5	6938	68 8'1	10523	29'8	13165	41
20	51'5	78	31'5	1227	23'0	3643	50'4	6998	19'1	10578	43'3	13193	40
21	46°52'2	86	48°34'2	1257	52°28'1	3693	58°58'3	7059	68°30'2	10634	80°56'9	13221	39
22	52'9	94	37'0	1288	33'2	3743	59 6'3	7119	41'3	10689	81 10'5	13248	38
23	53'7	102	39'7	1319	38'4	3793	14'4	7180	52'5	10743	24'1	13274	37
24	54'4	112	42'6	1350	43'6	3843	22'5	7240	69 3'7	10798	37'7	13300	36
25	55'2	121	45'5	1382	48'9	3894	30'6	7301	15'0	10852	51'4	13325	35
26	46°56'1	131	48°48'4	1414	52°54'2	3945	59°38'8	7362	69 26'3	10906	82° 5'0	13349	34
27	56'9	141	51'3	1447	59'6	3996	47'0	7423	37'7	10960	18'7	13373	33
28	57'8	152	54'3	1480	53 5'0	4047	55'4	7484	49'1	11013	32'5	13396	32
29	58'8	163	57'3	1513	10'4	4099	60 3'7	7545	70 0'6	11066	46'2	13418	31
30	59'8	174	49 0'4	1547	15'9	4151	12'1	7606	12'1	11119	83 0'0	13440	30
31	47° 0'8	186	49° 3'5	1581	53°21'5	4203	60°20'6	7667	70°23'7	11171	83°13'8	13461	29
32	1'8	198	6'6	1615	27'1	4255	29'1	7728	35'3	11223	27'6	13481	28
33	2'8	211	9'8	1650	32'7	4308	37'6	7789	46'9	11274	41'4	13501	27
34	3'9	224	13'0	1685	38'4	4361	46'3	7850	58'6	11326	55'3	13520	26
35	5'1	237	16'2	1720	44'1	4414	54'9	7911	71 10'4	11377	84 9'2	13538	25
36	47° 6'3	251	49°19'5	1756	53°49'8	4467	61° 3'6	7972	71°22'2	11428	84°23'0	13556	24
37	7'5	265	22'8	1792	55'6	4520	12'4	8033	34'1	11478	37'0	13573	23
38	8'7	279	26'2	1828	54 1'5	4574	21'2	8094	45'9	11527	50'9	13589	22
39	10'0	294	29'6	1865	7'4	4628	30'1	8155	57'9	11576	85 4'8	13605	21
40	11'3	310	33'0	1902	13'4	4683	39'0	8216	72 9'9	11625	18'8	13619	20
41	47°12'6	325	49°36'5	1939	54°19'4	4737	61°48'0	8277	72°21'9	11674	85°32'7	13633	19
42	14'0	341	40'0	1977	25'4	4792	57'0	8338	34'0	11723	46'7	13647	18
43	15'4	358	43'5	2015	31'5	4847	62 6'1	8399	46'1	11771	86 0'7	13659	17
44	16'8	374	47'1	2053	37'6	4902	15'2	8460	58'3	11818	14'7	13671	16
45	18'3	392	50'8	2092	43'8	4957	24'4	8521	73 10'5	11865	28'8	13683	15
46	47°19'8	409	49°54'4	2131	54°50'0	5013	62°33'7	8582	73°22'8	11911	86°42'8	13693	14
47	21'3	427	58'1	2170	56'3	5068	43'0	8643	35'1	11957	56'8	13703	13
48	22'9	445	50 1'9	2210	55 2'6	5124	52'3	8703	47'5	12003	87 10'9	13712	12
49	24'5	464	5'6	2250	9'0	5180	63 1'7	8764	59'9	12048	24'9	13721	11
50	26'1	483	9'5	2290	15'4	5237	11'2	8824	74 12'3	12093	39'0	13728	10
51	47°27'8	502	50°13'3	2331	55°21'8	5293	63°20'7	8885	74°24'8	12137	87°53'1	13735	9
52	29'5	522	17'2	2372	28'4	5350	30'2	8945	37'3	12181	88 7'2	13741	8
53	31'2	542	21'2	2413	34'9	5407	39'8	9006	49'9	12225	21'3	13747	7
54	33'0	563	25'2	2455	41'5	5464	49'5	9066	75 2'5	12268	35'4	13752	6
55	34'8	584	29'2	2497	48'2	5521	59'2	9126	15'1	12310	49'5	13756	5
56	47°36'7	605	50°33'2	2539	55°54'9	5578	64° 9'0	9186	75°27'8	12352	89° 3'6	13759	4
57	38'6	627	37'3	2581	56 1'6	5636	18'8	9246	40'6	12393	17'7	13761	3
58	40'5	649	41'5	2624	8'4	5694	28'7	9306	53'3	12434	31'8	13763	2
59	42'4	671	45'7	2667	15'3	5752	38'6	9365	76 6'1	12474	45'9	13764	1
60	44'4	694	49'9	2711	22'1	5810	48'6	9425	19'0	12514	90 0'0	13765	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 II	1 II	2 II	3 II	4 II	5 II						
0	47° 0-0	0 47°59-4	687	51° 4-6	2684	56°36-0	5748	65° 0-1	9315	76°25-9	12358	60
1	0-0	0 48 1-4	710	8-8	2727	42-9	5805	10-1	9374	38-7	12397	59
2	0-1	1 3-4	733	13-1	2771	49-9	5863	20-1	9433	51-5	12435	58
3	0-2	2 5-5	757	17-5	2815	56-9	5921	30-2	9491	77 4-3	12472	57
4	0-3	3 7-6	781	21-8	2859	57 3-9	5979	40-4	9549	17-2	12509	56
5	0-4	5 9-8	805	26-2	2904	11-0	6037	50-6	9607	30-2	12546	55
6	47° 0-6	7 48°12-0	830	51°30-7	2949	57°18-2	6095	66° 0-8	9665	77°43-1	12582	54
7	0-8	9 14-2	855	35-2	2994	25-4	6153	11-1	9722	56-1	12617	53
8	1-0	12 16-5	881	39-8	3039	32-6	6212	21-4	9780	78 9-2	12652	52
9	1-3	16 18-8	907	44-3	3085	40-0	6270	31-8	9837	22-2	12686	51
10	1-6	19 21-1	933	48-9	3131	47-4	6329	42-2	9894	35-3	12720	50
11	47° 2-0	23 48°23-5	960	51°53-6	3177	57°54-8	6388	66°52-7	9951	78°48-5	12753	49
12	2-4	28 25-9	987	58-3	3224	58 2-2	6447	67 3-3	10008	79 1-7	12786	48
13	2-8	33 28-3	1014	52 3-1	3271	9-7	6506	13-9	10064	14-9	12818	47
14	3-2	38 30-8	1042	7-9	3318	17-3	6565	24-5	10120	28-1	12849	46
15	3-7	43 33-3	1070	12-7	3365	24-9	6624	35-2	10176	41-3	12880	45
16	47° 4-2	49 48°35-8	1098	52°17-6	3413	58°32-5	6683	67°45-9	10232	79°54-6	12911	44
17	4-7	56 38-4	1127	22-5	3461	40-2	6743	56-7	10287	80 8-0	12940	43
18	5-3	62 41-0	1156	27-4	3509	48-0	6802	68 7-6	10343	21-3	12969	42
19	5-9	69 43-7	1186	32-4	3558	55-8	6862	18-5	10398	34-7	12997	41
20	6-5	77 46-4	1215	37-5	3607	59 3-7	6922	29-4	10453	48-1	13025	40
21	47° 7-2	85 48°49-1	1245	52°42-6	3655	59°11-6	6981	68°40-4	10507	81° 1-5	13052	39
22	7-9	93 51-8	1275	47-7	3704	19-5	7041	51-5	10561	15-0	13079	38
23	8-6	102 54-6	1306	52-9	3754	27-5	7101	69 2-6	10615	28-5	13105	37
24	9-4	111 57-5	1338	58-1	3804	35-6	7161	13-7	10669	42-0	13130	36
25	10-2	120 49 0-4	1369	53 3-4	3854	43-7	7221	24-9	10722	55-6	13155	35
26	47°11-1	130 49° 3-3	1401	53° 8-7	3905	59°51-9	7281	69°36-2	10775	82° 9-1	13179	34
27	11-9	140 6-2	1433	14-0	3955	60 0-1	7341	47-5	10828	22-7	13202	33
28	12-8	151 9-2	1465	19-4	4005	8-4	7401	58-8	10880	36-3	13225	32
29	13-7	161 12-2	1498	24-8	4057	16-7	7461	70 10-2	10932	50-0	13247	31
30	14-7	172 15-2	1532	30-3	4108	25-0	7521	21-6	10984	83 3-6	13268	30
31	47°15-7	185 49°18-3	1566	53°35-9	4160	60°33-4	7582	70 33-1	11036	83°17-3	13289	29
32	16-8	197 21-5	1600	41-4	4212	41-9	7642	44-7	11087	31-0	13309	28
33	17-8	209 24-6	1634	47-1	4264	50-4	7702	56-3	11138	44-7	13328	27
34	18-9	222 27-8	1669	52-7	4316	59-0	7762	71 7-9	11189	58-4	13347	26
35	20-1	235 31-1	1704	58-4	4368	61 7-6	7823	19-5	11239	84 12-2	13365	25
36	47°21-2	249 49°34-3	1739	54° 4-1	4421	61°16-3	7883	71°31-3	11288	84°26-0	13382	24
37	22-4	263 37-6	1774	9-9	4474	25-0	7943	43-1	11338	39-8	13398	23
38	23-7	277 41-0	1810	15-8	4528	33-8	8003	54-9	11387	53-6	13414	22
39	24-9	291 44-4	1847	21-7	4581	42-7	8064	72 6-7	11435	85 7-4	13430	21
40	26-2	307 47-8	1883	27-6	4634	51-5	8124	18-6	11484	21-2	13444	20
41	47°27-6	322 49°51-3	1920	54°33-6	4688	62° 0-5	8184	72°30-6	11532	85°35-1	13458	19
42	28-9	338 54-8	1958	39-6	4742	9-5	8244	42-6	11579	48-9	13471	18
43	30-3	354 58-4	1995	45-7	4796	18-5	8304	54-6	11626	86 2-8	13484	17
44	31-8	371 50 1-9	2033	51-8	4851	27-6	8364	73 6-7	11672	16-7	13496	16
45	33-2	388 5-6	2072	57-9	4906	36-7	8424	18-8	11719	30-6	13507	15
46	47°34-7	405 50° 9-2	2110	55° 4-1	4961	62°45-9	8484	73°31-0	11765	86°44-5	13517	14
47	36-3	423 12-9	2149	10-4	5016	55-2	8544	43-2	11810	58-4	13527	13
48	37-9	441 16-7	2189	16-7	5071	63 4-5	8604	55-5	11855	87 12-4	13536	12
49	39-4	459 20-4	2228	23-0	5126	13-8	8664	74 7-8	11899	26-3	13544	11
50	41-1	479 24-2	2268	29-4	5182	23-2	8724	20-1	11943	40-2	13551	10
51	47°42-8	498 50°28-1	2308	55°35-9	5238	63°32-7	8783	74°32-5	11987	87°54-2	13558	9
52	44-5	517 32-0	2349	42-4	5294	42-2	8843	45-0	12030	88 8-2	13564	8
53	46-2	537 35-9	2390	48-9	5350	51-8	8902	57-5	12073	22-1	13570	7
54	48-0	557 39-9	2431	55-5	5406	64 1-4	8962	75 10-0	12115	36-1	13575	6
55	49-8	578 43-9	2472	56 2-1	5463	11-0	9021	22-5	12157	50-1	13578	5
56	47°51-6	599 50°48-0	2514	56° 8-8	5520	64°20-8	9080	75°35-1	12198	89° 4-1	13581	4
57	53-5	621 52-1	2556	15-5	5577	30-5	9139	47-7	12239	18-0	13584	3
58	55-4	643 56-2	2598	22-3	5633	40-3	9198	76 0-4	12279	32-0	13586	2
59	57-4	665 51 0-4	2641	29-1	5690	50-2	9257	13-1	12319	46-0	13587	1
60	59-4	687 4-6	2684	36-0	5748	65 0-1	9315	25-9	12358	90 0-0	13587	0
	11 II	10 II	9 II	8 II	7 II	6 II	m					

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	47°15·0	0 48°14·3	681 51°19·3	2658 56°49·8	5686 65°11·6	9207 76°32·7	12203 60
1	15·0	0 16·4	704 23·5	2701 56·7	5743 21·6	9265 45·4	12241 59
2	15·1	1 18·4	727 27·8	2744 57 3·6	5800 31·5	9322 58·1	12278 58
3	15·2	2 20·5	750 32·1	2787 10·6	5857 41·5	9380 77 10·9	12315 57
4	15·3	3 22·6	774 36·5	2831 17·6	5914 51·6	9437 23·7	12351 56
5	15·4	5 24·7	798 40·9	2875 24·7	5972 66 1·7	9494 36·5	12387 55
6	47°15·6	7 48°26·9	822 51°45·3	2919 57°31·8	6029 66°11·9	9551 77°49·3	12423 54
7	15·8	9 29·1	847 49·8	2964 39·0	6087 22·1	9608 78 2·3	12458 53
8	16·0	12 31·4	873 54·4	3009 46·3	6145 32·4	9664 15·2	12492 52
9	16·3	15 33·7	898 58·9	3054 53·6	6203 42·7	9721 28·2	12526 51
10	16·6	19 36·0	924 52 3·6	3100 58 0·9	6261 53·1	9777 41·2	12559 50
11	47°17·0	23 48°38·4	950 52° 8·2	3145 58° 8·3	6319 67° 3·6	9833 78°54·2	12592 49
12	17·4	27 40·8	977 12·9	3191 15·7	6377 14·0	9889 79 7·2	12624 48
13	17·8	32 43·2	1004 17·6	3238 23·2	6435 24·6	9944 20·3	12655 47
14	18·2	37 45·7	1031 22·4	3284 30·7	6493 35·2	10000 33·5	12686 46
15	18·7	43 48·2	1059 27·2	3331 38·3	6552 45·8	10055 46·6	12716 45
16	47°19·2	49 48°50·8	1087 52°32·1	3378 58°45·9	6610 67°56·5	10110 79°59·8	12746 44
17	19·7	55 53·3	1116 37·0	3426 53·5	6669 68 7·2	10165 80 13·0	12775 43
18	20·3	62 55·9	1145 42·0	3474 59 1·3	6728 18·0	10219 26·3	12804 42
19	20·9	69 58·6	1174 47·0	3522 9·1	6787 28·8	10273 39·5	12832 41
20	21·5	76 49 1·3	1203 52·0	3570 16·9	6846 39·7	10327 52·9	12859 40
21	47°22·2	84 49° 4·0	1233 52°57·1	3618 59°24·8	6905 68°50·6	10381 81° 6·2	12886 39
22	22·9	92 6·7	1263 53 2·2	3667 32·7	6964 69 1·6	10434 19·5	12912 38
23	23·6	101 9·5	1294 7·3	3716 40·7	7023 12·6	10487 32·9	12937 37
24	24·4	110 12·4	1325 12·5	3765 48·7	7082 23·7	10540 46·3	12962 36
25	25·2	119 15·2	1356 17·8	3815 56·8	7141 34·8	10593 59·7	12986 35
26	47°26·0	129 49°18·2	1387 53°23·1	3864 60° 4·9	7200 69°46·0	10645 82°13·2	13010 34
27	26·9	139 21·1	1419 28·4	3914 13·1	7259 57·2	10697 26·7	13033 33
28	27·8	149 24·1	1451 33·8	3965 21·3	7319 70 8·5	10749 40·1	13056 32
29	28·7	160 27·1	1484 39·2	4015 29·6	7378 19·8	10800 53·7	13077 31
30	29·7	171 30·1	1517 44·7	4066 37·9	7438 31·1	10851 83 7·2	13097 30
31	47°30·7	183 49°33·2	1550 53°50·2	4117 60°46·3	7497 70°42·5	10902 83 20·8	13118 29
32	31·7	195 36·3	1584 55·7	4168 54·7	7556 54·0	10952 34·3	13137 28
33	32·8	207 39·5	1618 54 1·4	4219 61 3·2	7616 71 5·5	11002 47·9	13156 27
34	33·9	220 42·7	1652 7·0	4271 11·7	7675 17·1	11052 84 1·6	13175 26
35	35·0	233 45·9	1687 12·7	4323 20·3	7735 28·6	11101 15·2	13193 25
36	47°36·2	246 49°49·2	1722 54°18·4	4375 61°29·0	7794 71°40·3	11150 84°28·9	13210 24
37	37·4	260 52·5	1757 24·2	4428 37·7	7854 52·0	11199 42·5	13226 23
38	38·6	274 55·8	1793 30·0	4480 46·4	7913 72 3·7	11247 56·2	13242 22
39	39·9	289 59·2	1829 35·9	4533 55·2	7972 15·5	11295 85 9·9	13257 21
40	41·2	304 50 2·7	1865 41·8	4586 62 4·0	8032 27·3	11343 23·6	13271 20
41	47°42·5	319 50° 6·1	1902 54°47·8	4639 62°12·9	8091 72°39·2	11390 85°37·4	13285 19
42	43·9	335 9·6	1939 53·8	4692 21·8	8151 51·1	11436 51·1	13298 18
43	45·3	351 13·2	1976 59·8	4746 30·8	8210 73 3·0	11483 86 4·9	13310 17
44	46·7	367 16·8	2013 55 5·9	4800 39·9	8269 15·0	11529 18·6	13321 16
45	48·2	384 20·4	2051 12·1	4854 49·0	8328 27·1	11574 32·4	13332 15
46	47°49·7	401 50°24·0	2089 55°18·3	4908 62°58·1	8387 73°39·2	11619 86°46·2	13342 14
47	51·2	419 27·7	2128 24·5	4963 63 7·3	8447 51·3	11664 87 0·0	13352 13
48	52·8	437 31·4	2167 30·7	5017 16·6	8506 74 3·5	11708 13·8	13361 12
49	54·4	455 35·2	2206 37·0	5072 25·9	8565 15·7	11752 27·6	13369 11
50	56·1	474 39·0	2245 43·4	5127 35·2	8623 27·9	11795 41·5	13376 10
51	47°57·7	493 50°42·9	2285 55°49·8	5182 63°44·7	8682 74°40·2	11838 87°55·3	13383 9
52	59·5	512 46·7	2325 56·3	5237 54·1	8741 52·5	11880 88 9·1	13389 8
53	48 1·2	532 50·7	2366 56 2·8	5293 64 3·6	8800 75 5·0	11922 23·0	13394 7
54	2·9	552 54·7	2407 9·4	5349 13·2	8858 17·4	11964 36·8	13398 6
55	4·8	573 58·7	2448 16·0	5405 22·8	8917 29·8	12005 50·7	13402 5
56	48° 6·6	594 51° 2·7	2489 56°22·7	5461 64°32·5	8975 75°42·3	12045 89° 4·5	13406 4
57	8·5	615 6·8	2531 29·4	5517 42·2	9033 54·9	12085 18·4	13408 3
58	10·4	636 10·9	2573 36·2	5573 51·9	9091 76 7·4	12125 32·3	13410 2
59	12·3	659 15·1	2615 42·9	5630 65 1·8	9149 20·0	12164 46·1	13411 1
60	14·3	681 19·3	2658 49·8	5686 11·6	9207 32·7	12203 90 0·0	13411 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H						
0	47°30·0	0 48°29·3	674	51°33·9	2631	57° 3·5	5625	65°23·1	9099	76°39·5	12048	60
1	30·0	0 31·3	696	38·2	2673	10·4	5681	32·9	9156	52·1	12086	59
2	30·1	1 33·3	719	42·5	2716	17·3	5737	42·8	9212	77 4·7	12123	58
3	30·2	2 35·4	743	46·8	2759	24·3	5794	52·8	9269	17·3	12159	57
4	30·3	3 37·5	766	51·1	2802	31·3	5850	66 2·8	9326	30·0	12195	56
5	30·4	5 39·7	790	55·5	2846	38·4	5907	12·9	9382	42·8	12230	55
6	47°30·6	7 48°41·9	815	52° 0·0	2890	57°45·5	5964	66°23·0	9438	77°55·5	12265	54
7	30·8	9 44·1	840	4·4	2934	52·6	6020	33·2	9494	78 8·3	12300	53
8	31·0	12 46·3	864	9·0	2978	59·8	6077	43·4	9550	21·2	12333	52
9	31·3	15 48·6	889	13·5	3023	58 7·1	6135	53·7	9605	34·0	12366	51
10	31·6	19 50·9	915	18·1	3068	14·4	6192	67 4·0	9661	46·9	12399	50
11	47°32·0	23 48°53·3	942	52°22·7	3113	58°21·7	6249	67°14·3	9716	78°59·8	12431	49
12	32·3	27 55·7	968	27·5	3159	29·1	6306	24·7	9771	79 12·8	12463	48
13	32·7	32 58·1	994	32·2	3205	36·5	6364	35·2	9826	25·8	12494	47
14	33·2	37 49 0·6	1021	37·0	3251	44·1	6422	45·7	9880	38·8	12524	46
15	33·7	42 3·1	1048	41·8	3298	51·6	6480	56·3	9935	51·9	12554	45
16	47°34·2	48 49° 5·6	1076	52°46·6	3344	58°59·2	6538	68° 6·9	9989	80° 4·9	12584	44
17	34·7	54 8·2	1105	51·5	3391	59 6·9	6596	17·6	10042	18·0	12612	43
18	35·3	61 10·8	1133	56·5	3438	14·6	6654	28·3	10096	31·2	12640	42
19	35·9	68 13·5	1162	53 1·4	3485	22·3	6712	39·0	10150	44·3	12667	41
20	36·5	75 16·2	1191	6·5	3533	30·1	6770	49·8	10203	57·5	12694	40
21	47°37·2	83 49°18·9	1221	53°11·5	3581	59°37·9	6828	69° 0·7	10256	81°10·7	12720	39
22	37·9	91 21·6	1251	16·6	3629	45·8	6887	11·6	10308	24·0	12746	38
23	38·6	100 24·4	1281	21·8	3678	53·8	6945	22·6	10360	37·3	12771	37
24	39·4	109 27·2	1312	27·0	3726	60 1·8	7003	33·6	10412	50·5	12796	36
25	40·2	118 30·1	1343	32·2	3775	9·8	7061	44·6	10464	82 3·9	12820	35
26	47°41·0	127 49°33·0	1374	53°37·5	3825	60°17·9	7120	69°55·7	10516	82°17·2	12843	34
27	41·9	137 35·9	1405	42·8	3874	26·0	7178	70 6·8	10567	30·6	12865	33
28	42·8	147 38·9	1437	48·2	3924	34·2	7237	18·0	10618	43·9	12887	32
29	43·7	159 41·9	1470	53·6	3974	42·5	7295	29·3	10668	57·3	12908	31
30	44·7	170 45·0	1503	59·0	4024	50·8	7354	40·6	10718	83 10·8	12928	30
31	47°45·7	181 49°48·0	1536	54° 4·5	4074	60°59·1	7413	70°51·9	10768	83°24·2	12949	29
32	46·7	193 51·2	1569	10·1	4125	61 7·5	7472	71 3·3	10818	37·7	12968	28
33	47·8	205 54·3	1602	15·7	4176	15·9	7530	14·7	10867	51·2	12986	27
34	48·9	218 57·5	1636	21·3	4226	24·4	7589	26·2	10916	84 4·7	13004	26
35	50·0	230 50 0·7	1670	27·0	4277	33·0	7647	37·7	10965	18·2	13022	25
36	47°51·2	244 50° 4·0	1705	54°32·7	4329	61°41·6	7705	71°49·2	11013	84°31·7	13039	24
37	52·4	257 7·3	1740	38·4	4381	50·2	7764	72 0·8	11061	45·3	13055	23
38	53·6	272 10·7	1775	44·2	4433	58·9	7823	12·5	11109	58·8	13070	22
39	54·9	286 14·1	1811	50·1	4485	62 7·7	7882	24·2	11156	85 12·4	13085	21
40	56·2	301 17·5	1847	56·0	4538	16·5	7941	35·9	11202	26·0	13099	20
41	47°57·5	316 50°20·9	1883	55° 1·9	4590	62°25·3	7999	72°47·7	11249	85°39·6	13112	19
42	58·9	332 24·4	1919	7·9	4643	34·2	8058	59·5	11295	53·3	13124	18
43	48 0·2	348 28·0	1956	13·9	4696	43·2	8116	73 11·4	11341	86 6·9	13136	17
44	1·7	364 31·5	1993	20·0	4750	52·1	8174	23·3	11386	20·6	13148	16
45	3·2	381 35·1	2031	26·1	4803	63 1·2	8233	35·3	11430	34·2	13159	15
46	48° 4·7	398 50°38·8	2069	55°32·3	4856	63°10·3	8291	73°47·3	11474	86°47·9	13169	14
47	6·2	415 42·5	2107	38·5	4910	19·5	8349	59·3	11518	87 1·6	13178	13
48	7·8	433 46·2	2146	44·8	4964	28·7	8408	74 11·4	11561	15·3	13187	12
49	9·4	451 50·0	2184	51·1	5018	37·9	8466	23·5	11605	29·0	13195	11
50	11·0	469 53·8	2223	57·4	5073	47·2	8524	35·7	11648	42·7	13202	10
51	48°12·7	488 50°57·6	2262	56° 3·8	5127	63°56·6	8582	74°47·8	11690	87°56·4	13209	9
52	14·4	507 51 1·5	2302	10·3	5182	64 6·0	8640	75 0·1	11732	88 10·1	13215	8
53	16·1	527 5·4	2342	16·8	5236	15·4	8698	12·4	11773	23·8	13220	7
54	17·9	547 9·4	2383	23·3	5291	24·9	8755	24·7	11813	37·6	13224	6
55	19·7	567 13·4	2423	29·9	5347	34·5	8813	37·1	11854	51·3	13228	5
56	48°21·6	588 51°17·4	2464	56°36·5	5402	64°44·1	8870	75°49·5	11895	89° 5·0	13231	4
57	23·4	609 21·4	2505	43·2	5458	53·8	8928	76 1·9	11934	18·8	13234	3
58	25·3	630 25·6	2547	49·9	5513	65 3·5	8985	14·4	11972	32·5	13235	2
59	27·3	653 29·8	2589	56·7	5569	13·2	9042	26·9	12010	46·3	13236	1
60	29·3	674 33·9	2631	57 3·5	5625	23·1	9099	39·5	12048	90 0·0	13237	0
	11 H	10 H	9 H	8 H	7 H	6 H	m					

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	47°45·0	0 48°44·2	668 51°48·6	2604 57°17·3	5564 65°34·4	8992 76°46·2	11896 60
1	45·0	0 46·2	690 52·8	2646 24·1	5620 44·3	9048 58·7	11933 59
2	45·1	1 48·2	713 57·1	2688 31·0	5675 54·1	9104 77 11·2	11969 58
3	45·2	2 50·3	736 52 1·4	2731 37·9	5731 66 4·0	9160 23·8	12005 57
4	45·3	3 52·4	759 5·7	2774 44·9	5787 14·0	9215 36·4	12040 56
5	45·4	5 54·6	783 10·1	2817 52·0	5842 24·0	9271 49·0	12075 55
6	47°45·6	7 48°56·8	807 52°14·6	2860 57°59·0	5898 66°34·0	9326 78° 1·7	12109 54
7	45·8	9 59·0	831 19·0	2904 58 6·2	5955 44·1	9381 14·4	12143 53
8	46·1	12 49 1·3	856 23·5	2948 13·4	6011 54·3	9436 27·1	12176 52
9	46·3	15 3·5	881 28·1	2992 20·6	6067 67 4·5	9491 39·9	12208 51
10	46·6	19 5·9	906 32·7	3037 27·9	6124 14·7	9545 52·6	12240 50
11	47°47·0	23 49° 8·2	932 52°37·3	3082 58°35·2	6181 67°25·0	9600 79° 5·5	12272 49
12	47·4	27 10·6	958 42·0	3127 42·5	6237 35·4	9654 18·3	12303 48
13	47·8	31 13·1	985 46·7	3172 50·0	6294 45·8	9708 31·2	12334 47
14	48·2	36 15·5	1012 51·5	3218 57·4	6351 56·3	9761 44·1	12364 46
15	48·7	42 18·0	1039 56·3	3264 59 4·9	6408 68 6·7	9815 57·1	12393 45
16	47°49·2	48 49°20·5	1066 53° 1·1	3310 59°12·5	6465 68°17·3	9868 80°10·0	12421 44
17	49·7	54 23·1	1094 6·0	3356 20·1	6522 27·9	9921 23·0	12449 43
18	50·3	61 25·7	1122 10·9	3403 27·8	6579 38·5	9974 36·1	12477 42
19	50·9	67 28·4	1151 15·9	3449 35·5	6637 49·2	10027 49·1	12504 41
20	51·5	75 31·0	1180 20·9	3497 43·2	6694 69 0·0	10079 81 2·2	12530 40
21	47°52·2	82 49°33·8	1209 53°26·0	3544 59°51·1	6752 69°10·7	10131 81°15·3	12556 39
22	52·9	90 36·5	1239 31·1	3592 58·9	6809 21·6	10183 28·4	12581 38
23	53·6	99 39·3	1269 36·2	3640 60 6·8	6867 32·5	10234 41·6	12606 37
24	54·4	108 42·1	1299 41·4	3688 14·8	6924 43·4	10285 54·8	12630 36
25	55·2	117 45·0	1329 46·6	3736 22·8	6982 54·4	10336 82 8·0	12653 35
26	47°56·0	126 49°47·9	1360 53°51·8	3785 60°30·8	7040 70° 5·4	10387 82°21·2	12676 34
27	56·9	136 50·8	1392 57·2	3834 38·9	7098 16·5	10438 34·4	12698 33
28	57·8	146 53·8	1423 54 2·5	3883 47·1	7155 27·6	10488 47·7	12720 32
29	58·7	157 56·8	1455 7·9	3932 55·3	7213 38·7	10538 83 1·0	12741 31
30	59·7	168 59·8	1487 13·3	3982 61 3·6	7271 49·9	10587 14·3	12761 30
31	48° 0·7	179 50° 2·9	1520 54°18·8	4032 61°11·9	7329 71° 1·2	10636 83°27·6	12781 29
32	1·7	191 6·0	1553 24·4	4082 20·2	7386 12·5	10685 41·0	12800 28
33	2·8	203 9·1	1586 29·9	4132 28·6	7444 23·8	10734 54·4	12818 27
34	3·9	216 12·3	1620 35·5	4182 37·1	7502 35·2	10782 84 7·7	12836 26
35	5·0	228 15·6	1654 41·2	4233 45·6	7560 46·7	10830 21·1	12853 25
36	48° 6·2	242 50°18·9	1688 54°46·9	4284 61°54·1	7618 71°58·2	10877 84°34·6	12869 24
37	7·4	255 22·1	1723 52·6	4335 62 2·7	7676 72 9·7	10924 48·0	12885 23
38	8·6	269 25·5	1758 58·4	4386 11·4	7734 21·2	10971 85 1·5	12900 22
39	9·9	283 28·8	1793 55 4·3	4438 20·0	7791 32·8	11017 14·9	12915 21
40	11·2	298 32·3	1828 10·1	4490 28·8	7849 44·5	11063 28·4	12928 20
41	48°12·5	313 50°35·7	1864 55°16·0	4542 62°37·6	7907 72°56·2	11109 85°41·9	12941 19
42	13·9	329 39·2	1900 22·0	4594 46·5	7965 73 7·9	11154 55·4	12954 18
43	15·3	344 42·7	1937 28·0	4646 55·4	8022 19·7	11199 86 8·8	12966 17
44	16·7	360 46·3	1974 34·1	4699 63 4·3	8080 31·5	11244 22·5	12977 16
45	18·2	377 49·9	2011 40·2	4752 13·4	8138 43·4	11288 36·0	12988 15
46	48°19·7	394 50°53·5	2048 55°46·3	4805 63°22·4	8195 73°55·3	11331 86°49·6	12998 14
47	21·2	411 57·1	2086 52·5	4858 31·5	8253 74 7·3	11374 87 3·2	13007 13
48	22·8	429 51 0·9	2124 58·8	4911 40·7	8310 19·3	11417 16·7	13015 12
49	24·4	447 4·7	2162 56 5·1	4965 49·9	8367 31·3	11460 30·3	13023 11
50	26·0	465 8·5	2201 11·4	5018 59·1	8425 43·4	11502 43·9	13030 10
51	48°27·7	483 51°12·3	2240 56°17·8	5072 64° 8·4	8482 74°55·5	11543 87°57·5	13036 9
52	29·4	503 16·2	2279 24·2	5126 17·8	8539 75 7·6	11584 88 11·1	13042 8
53	31·1	522 20·1	2319 30·7	5180 27·2	8596 19·8	11625 24·7	13047 7
54	32·9	542 24·1	2359 37·2	5235 36·7	8653 32·0	11665 38·3	13052 6
55	34·7	561 28·1	2399 43·8	5289 46·1	8710 44 3	11705 51·9	13056 5
56	48°36·5	582 51°32·1	2439 56°50·4	5344 64°55·7	8766 75°56·6	11744 89° 5·5	13059 4
57	38·4	603 36·2	2480 57·0	5399 65 5·3	8823 76 9·0	11783 19·1	13061 3
58	40·3	624 40·3	2521 57 3·7	5454 15·0	8879 21·3	11821 32·8	13063 2
59	42·2	646 44·4	2563 10·5	5509 24·7	8936 33·8	11859 46·4	13064 1
60	44·2	668 48·6	2604 17·3	5564 34·4	8992 46·2	11896 90 0·0	13064 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 II	1 II	2 II	3 II	4 II	5 II	
0	48° 0-0	0 48°59-1	661 52° 3-2	2578 57°31-0	5503 65°45-8	8885 76°52-9	11744 60
1	0-0	0 49 1-1	683 7-5	2619 37-8	5558 55-5	8940 77 5-3	11780 59
2	0-1	1 3-2	705 11-7	2661 44-6	5613 66 5-3	8995 17-7	11815 58
3	0-2	2 5-3	728 16-0	2703 51-5	5668 15-2	9050 30-2	11851 57
4	0-3	3 7-4	751 20-3	2745 58-5	5723 25-1	9105 42-7	11886 56
5	0-4	5 9-5	775 24-7	2788 58 5-5	5778 35-0	9160 55-2	11920 55
6	48° 0-6	7 49°11-7	799 52°29-1	2831 58°12-6	5833 66°45-0	9214 78° 7-8	11953 54
7	0-8	9 13-9	823 33-6	2874 19-7	5889 55-0	9269 20-4	11987 53
8	1-0	12 16-2	847 38-1	2918 26-8	5945 67 5-1	9323 33-0	12020 52
9	1-3	15 18-5	872 42-6	2962 34-0	6000 15-3	9377 45-6	12052 51
10	1-6	18 20-8	897 47-2	3005 41-3	6056 25-5	9431 58-3	12083 50
11	48° 2-0	22 49°23-1	923 52°51-9	3049 58°48-5	6112 67°35-7	9484 79°11-0	12114 49
12	2-3	27 25-5	949 56-5	3094 55-9	6168 46-0	9537 23-8	12144 48
13	2-7	31 27-9	975 53 1-2	3139 59 3-3	6224 56-3	9591 36-6	12174 47
14	3-2	36 30-4	1001 6-0	3184 10-7	6280 68 6-7	9644 49-4	12204 46
15	3-7	41 32-9	1029 10-8	3230 18-2	6337 17-1	9696 80 2-2	12233 45
16	48° 4-2	47 49°35-4	1056 53°15-6	3275 59°25-7	6393 68°27-6	9749 80°15-1	12261 44
17	4-7	53 38-0	1083 20-5	3321 33-3	6449 38-1	9801 28-0	12289 43
18	5-3	60 40-6	1111 25-4	3367 40-9	6506 48-7	9853 40-9	12316 42
19	5-9	66 43-2	1139 30-3	3413 48-6	6562 59-3	9905 53-8	12342 41
20	6-5	74 45-9	1168 35-3	3460 56-3	6620 69 10-0	9956 81 6-8	12368 40
21	48° 7-2	81 49°48-6	1197 53°40-4	3507 60° 4-1	6676 69°20-7	10007 81°19-7	12394 39
22	7-9	89 51-4	1226 45-4	3554 11-9	6732 31-5	10058 32-8	12419 38
23	8-6	98 54-2	1256 50-6	3601 19-8	6789 42-3	10109 45-9	12443 37
24	9-4	107 57-0	1286 55-7	3649 27-7	6846 53-2	10160 58-9	12466 36
25	10-2	116 59-8	1316 54 0-9	3697 35-7	6903 70 4-1	10210 82 12-0	12489 35
26	48°11-0	125 50° 2-7	1347 54° 6-2	3745 60°43-7	6959 70°15-0	10260 82°25-1	12511 34
27	11-9	135 5-6	1378 11-5	3793 51-8	7017 26-0	10309 38-3	12533 33
28	12-8	145 8-6	1409 16-8	3842 59-9	7073 37-0	10359 51-4	12554 32
29	13-7	156 11-6	1441 22-2	3891 61 8-1	7131 48-1	10408 83 4-6	12575 31
30	14-7	167 14-7	1473 27-6	3940 16-3	7188 59-3	10457 17-8	12595 30
31	48°15-7	178 50°17-7	1505 54°33-1	3989 61°24-5	7245 71°10-4	10505 83°31-0	12614 29
32	16-7	189 20-8	1537 38-6	4039 32-9	7302 21-7	10553 44-3	12633 28
33	17-8	201 24-0	1570 44-1	4088 41-2	7359 32-9	10601 57-5	12651 27
34	18-9	214 27-2	1603 49-7	4138 49-6	7416 44-2	10648 84 10-8	12668 26
35	20-0	226 30-4	1637 55-4	4188 58-1	7473 55-6	10695 24-1	12685 25
36	48°21-2	239 50°33-6	1671 55° 1-1	4238 62° 6-6	7531 72° 7-0	10742 84°37-4	12701 24
37	22-4	253 36-9	1705 6-8	4289 15-2	7588 18-4	10788 50-7	12717 23
38	23-6	267 40-3	1740 12-6	4339 23-8	7645 29-9	10834 85 4-1	12732 22
39	24-9	281 43-6	1775 18-4	4390 32-4	7702 41-4	10880 17-4	12746 21
40	26-2	295 47-0	1810 24-2	4442 41-2	7759 53-0	10925 30-8	12759 20
41	48°27-5	310 50°50-5	1845 55°30-1	4493 62°49-9	7816 73° 4-6	10970 85°44-1	12772 19
42	28-8	325 54-0	1881 36-1	4545 58-7	7873 16-3	11014 57-5	12784 18
43	30-2	341 57-5	1917 42-1	4596 63 7-6	7929 28-0	11059 86 10-9	12796 17
44	31-7	357 51 1-1	1954 48-1	4648 16-5	7986 39-7	11103 24-4	12807 16
45	33-1	373 4-6	1990 54-2	4701 25-4	8043 51-5	11146 37-8	12818 15
46	48°34-6	390 51° 8-3	2027 56° 0-3	4753 63°34-5	8100 74° 3-3	11189 86°51-2	12827 14
47	36-2	407 12-0	2065 6-5	4806 43-5	8156 15-2	11231 87 4-7	12836 13
48	37-7	424 15-7	2103 12-7	4858 52-6	8213 27-1	11273 18-1	12845 12
49	39-3	442 19-4	2141 19-0	4911 64 1-8	8270 39-0	11315 31-6	12852 11
50	41-0	460 23-2	2179 25-3	4964 11-0	8326 51-0	11356 45-1	12859 10
51	48°42-6	479 51°27-0	2217 56°31-7	5017 64°20-2	8382 75° 3-0	11397 87°58-5	12865 9
52	44-3	498 30-9	2256 38-1	5071 29-5	8438 15-1	11437 88 12-0	12871 8
53	46-1	517 34-8	2295 44-5	5124 38-9	8495 27-2	11477 25-5	12876 7
54	47-8	536 38-7	2335 51-0	5178 48-3	8551 39-3	11517 39-0	12880 6
55	49-6	556 42-7	2374 57-6	5232 57-7	8607 51-5	11556 52-5	12884 5
56	48°51-5	577 51°46-8	2414 57° 4-1	5286 65° 7-3	8663 76° 3-7	11595 89° 6-0	12887 4
57	53-3	598 50-8	2455 10-8	5340 16-8	8719 15-9	11633 19-6	12890 3
58	55-2	618 54-9	2495 17-5	5394 26-4	8775 28-2	11671 33-0	12891 2
59	57-2	639 59-1	2536 24-2	5449 36-0	8830 40-5	11708 46-5	12892 1
60	59-1	661 52 3-2	2578 31-0	5503 45-8	8885 52-9	11744 90 0-0	12893 0
	11 II	10 II	9 II	8 II	7 II	6 II	m

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	48°15-0	0	49°14-1	655	52°17-9	2551	57°44-6	5443	65°57-0	8779	76°59-5	11594	60
1	15-0	0	16-1	677	22-1	2592	51-4	5497	66 6-7	8834	77 11-7	11629	59
2	15-1	1	18-1	699	26-3	2634	58-2	5551	16-5	8888	24-1	11664	58
3	15-2	2	20-2	721	30-6	2675	58 5-1	5605	26-2	8942	36-5	11699	57
4	15-3	3	22-3	744	34-9	2717	12-0	5660	36-1	8996	48-9	11733	56
5	15-4	5	24-5	767	39-3	2759	19-0	5714	46-0	9050	78 1-4	11767	55
6	48°15-6	7	49°26-6	791	52°43-7	2802	58°26-0	5769	66°55-9	9103	78°13-8	11800	54
7	15-8	9	28-8	815	48-2	2845	33-1	5824	67 5-9	9157	26-3	11833	53
8	16-0	12	31-1	839	52-6	2888	40-2	5878	15-9	9210	38-8	11865	52
9	16-3	15	33-4	864	57-2	2931	47-4	5933	26-0	9263	51-4	11896	51
10	16-6	18	35-7	889	53 1-7	2974	54-6	5988	36-1	9316	79 4-0	11927	50
11	48°17-0	22	49°38-0	914	53° 6-4	3018	59° 1-9	6044	67°46-3	9369	79°16-6	11958	49
12	17-3	26	40-4	939	11-0	3062	9-2	6099	56-5	9422	29-2	11988	48
13	17-7	31	42-9	965	15-7	3107	16-6	6154	68 6-8	9474	41-9	12017	47
14	18-2	36	45-3	992	20-4	3151	24-0	6210	17-1	9526	54-5	12046	46
15	18-7	41	47-8	1018	25-2	3196	31-4	6265	27-5	9578	80 7-3	12074	45
16	48°19-2	47	49°50-3	1045	53°30-0	3241	59°38-9	6321	68°37-9	9630	80°20-1	12102	44
17	19-7	53	52-9	1073	34-9	3286	46-5	6377	48-4	9681	32-9	12129	43
18	20-3	59	55-5	1100	39-8	3332	54-1	6432	58-9	9732	45-7	12156	42
19	20-9	66	58-1	1128	44-7	3378	60 1-7	6488	69 9-4	9783	58-5	12182	41
20	21-5	73	50 0-8	1157	49-7	3424	9-4	6544	20-0	9834	81 11-4	12207	40
21	48°22-2	81	50° 3-5	1185	53°54-7	3470	60°17-1	6600	69°30-7	9885	81°24-3	12232	39
22	22-9	89	6-2	1214	59-8	3517	24-9	6656	41-4	9935	37-2	12257	38
23	23-6	97	9-0	1244	54 4-9	3564	32-8	6712	52-1	9985	50-1	12281	37
24	24-4	105	11-9	1273	10-1	3611	40-7	6768	70 2-9	10034	82 3-1	12304	36
25	25-2	114	14-7	1303	15-3	3658	48-6	6824	13-7	10084	16-1	12326	35
26	48°26-0	124	50°17-6	1333	54°20-5	3705	60°56-6	6881	70°24-6	10133	82°29-1	12348	34
27	26-9	133	20-5	1364	25-8	3753	61 4-6	6937	35-5	10182	42-1	12370	33
28	27-8	143	23-5	1395	31-1	3801	12-7	6993	46-5	10230	55-2	12390	32
29	28-7	154	26-4	1426	36-5	3850	20-8	7049	57-5	10279	83 8-2	12410	31
30	29-7	165	29-5	1458	41-9	3898	29-0	7106	71 8-5	10327	21-3	12430	30
31	48°30-7	176	50°32-5	1490	54°47-3	3947	61°37-2	7162	71°19-6	10374	83°34-4	12449	29
32	31-7	187	35-6	1522	52-8	3996	45-5	7218	30-8	10422	47-5	12467	28
33	32-7	199	38-8	1555	58-4	4045	53-8	7275	41-9	10469	84 0-5	12485	27
34	33-8	211	42-0	1587	55 3-9	4094	62 2-2	7331	53-2	10515	13-7	12502	26
35	35-0	224	45-2	1620	9-5	4144	10-6	7387	72 4-4	10562	27-0	12519	25
36	48°36-2	237	50°48-4	1654	55°15-2	4193	62°19-1	7443	72°15-8	10608	84°40-2	12535	24
37	37-4	250	51-7	1688	20-9	4243	27-6	7500	27-1	10653	53-4	12550	23
38	38-6	264	55-1	1722	26-7	4293	36-2	7556	38-5	10699	85 6-6	12565	22
39	39-8	278	58-4	1757	32-5	4344	44-8	7612	50-0	10744	19-9	12579	21
40	41-1	292	51 1-8	1792	38-3	4394	53-4	7668	73 1-5	10788	33-1	12592	20
41	48°42-5	307	51° 5-3	1827	55°44-2	4445	63° 2-1	7725	73°13-0	10832	85°46-4	12605	19
42	43-8	322	8-7	1862	50-1	4496	10-9	7781	24-6	10876	59-7	12617	18
43	45-2	338	12-2	1898	56-1	4547	19-7	7837	36-2	10920	86 12-9	12628	17
44	46-6	353	15-8	1934	56 2-1	4598	28-6	7893	47-8	10963	26-2	12639	16
45	48-1	370	19-4	1970	8-2	4650	37-5	7949	59-5	11005	39-5	12649	15
46	48°49-6	386	51°23-0	2007	56°14-3	4702	63°46-5	8005	74°11-3	11047	86°52-9	12658	14
47	51-1	403	26-7	2044	20-5	4754	55-5	8061	23-0	11089	87 6-2	12667	13
48	52-7	420	30-4	2081	26-7	4806	64 4-5	8116	34-8	11131	19-5	12676	12
49	54-3	438	34-1	2119	32-9	4858	13-6	8172	46-7	11172	32-9	12683	11
50	55-9	456	37-9	2157	39-2	4910	22-8	8228	58-6	11212	46-2	12690	10
51	48°57-6	474	51°41-7	2195	56°45-5	4963	64°32-0	8283	75°10-5	11252	87°59-6	12696	9
52	59-3	493	45-6	2233	51-9	5015	41-2	8339	22-5	11292	88 13-0	12702	8
53	49 1-0	512	49-5	2272	58-3	5067	50-5	8394	34-5	11332	26-3	12707	7
54	2-8	531	53-4	2311	57 4-8	5121	59-9	8450	46-5	11371	39-7	12711	6
55	4-6	551	57-4	2350	11-3	5175	65 9-3	8505	58-6	11409	53-1	12715	5
56	49° 6-4	571	52° 1-4	2390	57°17-9	5228	65°18-7	8560	76°10-7	11447	89° 6-5	12717	4
57	8-3	591	5-5	2430	24-5	5281	28-2	8615	22-9	11484	19-8	12719	3
58	10-2	612	9-5	2470	31-2	5335	37-8	8670	35-1	11521	33-2	12721	2
59	12-1	633	13-7	2511	37-9	5389	47-4	8724	47-3	11558	46-6	12722	1
60	14-1	655	17-9	2551	44-6	5443	57-0	8779	59-5	11594	90 0-0	12723	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	48°30·0	0	49°29·0	648	52°32·5	2525	57°58·2	5383	66° 8·2	8673	77° 6·2	11444	60
1	30·0	0	31·0	669	36·7	2565	58 5·0	5435	17·9	8727	18·3	11480	59
2	30·1	1	33·0	692	40·9	2606	11·8	5489	27·6	8781	30·6	11514	58
3	30·2	2	35·1	714	45·2	2648	18·7	5543	37·3	8834	42·8	11548	57
4	30·3	3	37·2	737	49·5	2689	25·6	5596	47·1	8887	55·1	11582	56
5	30·4	5	39·4	760	53·9	2731	32·5	5650	56·9	8940	78 7·5	11615	55
6	48°30·6	7	49°41·6	783	52°58·3	2773	58°39·5	5705	67° 6·8	8993	78°19·8	11647	54
7	30·8	9	43·8	807	53 2·7	2815	46·5	5759	16·7	9046	32·2	11679	53
8	31·0	12	46·0	831	7·2	2857	53·6	5813	26·7	9098	44·6	11711	52
9	31·3	15	48·3	855	11·7	2900	59 0·8	5867	36·7	9151	57·1	11742	51
10	31·6	18	50·6	880	16·3	2943	8·0	5922	46·7	9203	79 9·6	11772	50
11	48°32·0	22	49°52·9	905	53°20·9	2987	59°15·2	5976	67°56·8	9255	79°22·1	11802	49
12	32·3	26	55·3	930	25·5	3030	22·5	6030	68 7·0	9307	34·6	11832	48
13	32·7	31	57·7	956	30·2	3074	29·8	6085	17·2	9358	47·2	11861	47
14	33·2	36	50 0·2	982	34·9	3117	37·2	6140	27·5	9410	59·8	11889	46
15	33·7	41	2·7	1008	39·7	3162	44·6	6195	37·8	9461	80 12·4	11917	45
16	48°34·2	46	50° 5·2	1035	53°44·5	3207	59°52·1	6249	68°48·1	9511	80°25·1	11944	44
17	34·7	52	7·8	1062	49·3	3252	59·6	6304	58·5	9562	37·8	11971	43
18	35·3	59	10·4	1089	54·2	3297	60 7·1	6359	69 8·9	9612	50·5	11997	42
19	35·9	65	13·0	1117	59·1	3343	14·7	6415	19·4	9663	81 3·3	12023	41
20	36·5	72	15·7	1145	54 4·1	3388	22·4	6470	30·0	9713	16·0	12048	40
21	48°37·2	80	50°18·4	1174	54° 9·1	3434	60°30·1	6525	69°40·5	9763	81°28·7	12072	39
22	37·9	88	21·1	1202	14·2	3480	37·9	6580	51·1	9812	41·5	12096	38
23	38·6	96	23·9	1231	19·3	3526	45·7	6636	70 1·8	9861	54·4	12120	37
24	39·4	104	26·7	1261	24·4	3573	53·5	6691	12·5	9910	82 7·2	12143	36
25	40·2	113	29·5	1291	29·6	3619	61 1·4	6746	23·3	9959	20·1	12165	35
26	48°41·0	122	50°32·4	1321	54°34·8	3666	61° 9·4	6802	70°34·1	10007	82°33·0	12186	34
27	41·9	132	35·3	1351	40·0	3713	17·4	6857	44·9	10055	45·9	12207	33
28	42·8	142	38·3	1381	45·3	3761	25·4	6913	55·8	10103	58·8	12228	32
29	43·7	153	41·3	1412	50·7	3808	33·5	6968	71 6·7	10151	83 11·8	12248	31
30	44·7	163	44·3	1443	56·1	3856	41·6	7024	17·7	10198	24·8	12267	30
31	48°45·7	174	50°47·4	1475	55° 1·5	3905	61°49·8	7079	71°28·7	10245	83°37·8	12285	29
32	46·7	186	50·5	1507	7·0	3953	58·0	7135	39·8	10292	50·8	12303	28
33	47·7	197	53·6	1539	12·5	4001	62 6·3	7190	50·9	10338	84 3·8	12321	27
34	48·8	209	56·8	1572	18·1	4050	14·7	7246	72 2·1	10383	16·8	12338	26
35	50·0	222	51 0·0	1604	23·7	4099	23·0	7301	13·3	10429	29·9	12354	25
36	48°51·1	235	51° 3·2	1637	55°29·3	4148	62°31·5	7357	72°24·5	10474	84°43·0	12369	24
37	52·3	248	6·5	1671	35·0	4197	39·9	7412	35·8	10519	56·1	12384	23
38	53·5	261	9·8	1705	40·7	4247	48·5	7468	47·1	10564	85 9·2	12399	22
39	54·8	275	13·2	1739	46·5	4297	57·0	7523	58·5	10608	22·3	12413	21
40	56·1	290	16·6	1774	52·3	4347	63 5·6	7578	73 9·9	10652	35·4	12426	20
41	48°57·4	304	51°20·0	1808	55°58·2	4397	63°14·3	7634	73°21·3	10695	85°48·6	12438	19
42	58·8	319	23·5	1843	56 4·2	4447	23·0	7689	32·8	10738	86 1·8	12450	18
43	49 0·2	334	27·0	1878	10·1	4497	31·8	7745	44·3	10781	14·9	12461	17
44	1·6	350	30·5	1914	16·1	4548	40·6	7800	55·9	10824	28·1	12472	16
45	3·1	366	34·1	1950	22·2	4599	49·5	7855	74 7·5	10866	41·3	12482	15
46	49° 4·6	382	51°37·7	1986	56°28·2	4650	63°58·4	7911	74°19·1	10907	86°54·5	12491	14
47	6·1	399	41·4	2023	34·4	4702	64 7·4	7966	30·8	10948	87 7·7	12500	13
48	7·6	416	45·1	2060	40·6	4753	16·4	8021	42·6	10989	20·9	12508	12
49	9·2	434	48·8	2097	46·8	4805	25·4	8076	54·3	11030	34·2	12515	11
50	10·9	451	52·6	2134	53·0	4856	34·5	8131	75 6·1	11070	47·4	12522	10
51	49°12·5	469	51°56·4	2172	56°59·4	4908	64°43·7	8185	75°18·0	11109	88° 0·6	12528	9
52	14·2	488	52 0·3	2210	57 5·7	4961	52·9	8240	29·8	11148	13·9	12533	8
53	16·0	506	4·2	2249	12·1	5013	65 2·1	8295	41·7	11187	27·1	12538	7
54	17·7	526	8·1	2287	18·6	5065	11·4	8349	53·6	11225	40·4	12543	6
55	19·5	545	12·0	2326	25·1	5117	20·8	8403	76 5·6	11263	53·7	12546	5
56	49°21·3	565	52°16·0	2365	57°31·6	5170	65°30·2	8458	76°17·7	11300	89° 6·9	12549	4
57	23·2	585	20·1	2405	38·2	5223	39·6	8512	29·8	11337	20·2	12551	3
58	25·1	606	24·2	2445	44·8	5276	49·1	8566	41·9	11373	33·5	12553	2
59	27·0	627	28·3	2485	51·5	5329	58·6	8620	54·0	11409	46·7	12554	1
60	29·0	648	32·5	2525	58·2	5383	66 8·2	8673	77 6·2	11444	90 0·0	12554	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	48°45.0	0	49°43.9	642	52°47.0	2499	58°11.8	5322	66°19.4	8569	77°12.7	11297	60
1	45.0	0	45.9	663	51.2	2539	18.5	5375	29.0	8622	24.8	11331	59
2	45.1	1	48.0	685	55.4	2579	25.3	5428	38.6	8674	36.9	11365	58
3	45.2	2	50.0	707	59.7	2620	32.1	5481	48.3	8727	49.1	11398	57
4	45.3	3	52.1	729	53 4.0	2661	39.0	5534	58.0	8779	78 1.3	11431	56
5	45.4	5	54.3	752	8.4	2702	45.9	5587	67 7.8	8831	13.5	11464	55
6	48°45.6	7	49°56.5	775	53°12.8	2744	58°52.9	5640	67°17.6	8883	78°25.8	11496	54
7	45.8	9	58.6	799	17.2	2785	59.9	5693	27.4	8935	38.1	11527	53
8	46.0	12	50 0.9	822	21.7	2827	59 7.0	5747	37.3	8987	50.4	11558	52
9	46.3	15	5.2	846	26.2	2870	14.1	5801	47.3	9039	79 2.8	11589	51
10	46.6	18	5.5	871	30.7	2912	21.2	5854	57.3	9090	15.2	11619	50
11	48°47.0	22	50° 7.8	896	53°35.3	2955	59°28.4	5908	68° 7.3	9141	79°27.6	11648	49
12	47.4	26	10.2	921	39.9	2998	35.7	5962	17.4	9192	40.0	11677	48
13	47.8	30	12.6	946	44.6	3041	43.0	6016	27.6	9243	52.5	11706	47
14	48.2	35	15.1	972	49.3	3085	50.3	6070	37.8	9294	80 4.9	11734	46
15	48.7	40	17.6	998	54.1	3129	57.7	6124	48.0	9344	17.5	11761	45
16	48°49.2	46	50°20.1	1024	53°58.9	3173	60° 5.2	6178	68°58.3	9394	80°30.0	11788	44
17	49.7	52	22.6	1051	54 3.7	3217	12.6	6232	69 8.6	9444	42.6	11814	43
18	50.2	58	25.2	1078	8.6	3262	20.2	6287	19.0	9494	55.2	11840	42
19	50.9	65	27.8	1106	13.5	3306	27.8	6341	29.4	9543	81 7.8	11865	41
20	51.5	72	30.5	1133	18.4	3351	35.4	6396	39.8	9593	20.5	11889	40
21	48°52.2	79	50°33.2	1161	54°23.4	3397	60°43.0	6450	69°50.3	9642	81°33.1	11914	39
22	52.9	87	35.9	1190	28.5	3442	50.8	6505	70 0.9	9690	45.8	11937	38
23	53.6	95	38.7	1219	33.6	3488	58.5	6559	11.5	9738	58.6	11960	37
24	54.4	103	41.5	1248	38.7	3534	61 6.4	6614	22.1	9787	82 11.3	11983	36
25	55.2	112	44.4	1277	43.9	3580	14.2	6668	32.8	9835	24.1	12005	35
26	48°56.0	121	50°47.2	1307	54°49.1	3627	61°22.1	6723	70°43.5	9882	82°36.9	12026	34
27	56.8	131	50.1	1337	54.3	3673	30.1	6778	54.3	9930	49.7	12046	33
28	57.7	141	53.1	1367	59.6	3720	38.1	6832	71 5.1	9977	83 2.5	12066	32
29	58.7	151	56.1	1397	55 4.9	3767	46.1	6887	16.0	10023	15.3	12086	31
30	59.6	162	59.1	1428	10.3	3815	54.2	6942	26.9	10070	28.2	12105	30
31	49° 0.6	172	51° 2.2	1459	55°15.7	3862	62° 2.4	6997	71°37.8	10116	83°41.1	12123	29
32	1.7	184	5.2	1491	21.2	3910	10.6	7052	48.8	10162	54.0	12141	28
33	2.7	195	8.3	1523	26.7	3958	18.8	7106	59.8	10208	84 6.9	12158	27
34	3.8	207	11.5	1555	32.2	4006	27.1	7161	72 10.9	10253	19.8	12174	26
35	4.9	220	14.8	1588	37.8	4055	35.4	7216	22.0	10297	32.8	12190	25
36	49° 6.1	232	51°18.0	1621	55°43.5	4103	62°43.8	7271	72°33.2	10342	84°45.8	12206	24
37	7.3	245	21.3	1654	49.1	4152	52.2	7325	44.4	10386	58.8	12221	23
38	8.5	259	24.6	1687	54.8	4201	63 0.7	7380	55.6	10430	85 11.7	12235	22
39	9.8	272	28.0	1721	56 0.6	4250	9.2	7435	73 6.9	10474	24.7	12248	21
40	11.1	287	31.3	1755	6.4	4299	17.8	7490	18.2	10517	37.8	12261	20
41	49°12.4	301	51°34.7	1790	56°12.3	4349	63°26.4	7544	73°29.6	10560	85°50.8	12273	19
42	13.7	316	38.2	1824	18.2	4399	35.1	7599	41.0	10602	86 3.8	12285	18
43	15.1	331	41.7	1859	24.1	4449	43.8	7653	52.4	10644	16.9	12296	17
44	16.6	346	45.2	1894	30.1	4499	52.6	7708	74 3.9	10686	30.0	12306	16
45	18.0	362	48.8	1930	36.1	4549	64 1.4	7762	15.4	10727	43.0	12316	15
46	49°19.5	378	51°52.4	1966	56°42.1	4599	64°10.3	7817	74°27.0	10768	86°56.1	12325	14
47	21.0	395	56.1	2002	48.2	4650	19.2	7871	38.6	10808	87 9.2	12334	13
48	22.6	412	59.8	2039	54.4	4701	28.2	7925	50.2	10848	22.3	12342	12
49	24.2	429	52 3.5	2075	57 0.6	4752	37.2	7979	75 1.9	10888	35.4	12349	11
50	25.8	447	7.3	2112	6.9	4803	46.2	8033	13.6	10928	48.6	12356	10
51	49°27.5	465	52°11.1	2150	57°13.2	4854	64°55.3	8087	75°25.3	10966	88° 1.7	12362	9
52	29.2	483	14.9	2187	19.5	4905	65 4.5	8141	37.1	11005	14.8	12367	8
53	30.9	502	18.8	2225	25.9	4957	13.7	8195	49.0	11043	28.0	12372	7
54	32.7	521	22.7	2263	32.3	5009	22.9	8249	76 0.8	11081	41.1	12376	6
55	34.4	540	26.7	2302	38.7	5061	32.2	8302	12.7	11118	54.2	12379	5
56	49°36.3	560	52°30.7	2341	57°45.3	5113	65°41.6	8356	76°24.6	11154	89° 7.4	12382	4
57	38.1	580	34.7	2380	51.8	5165	50.9	8409	36.6	11191	20.5	12384	3
58	40.0	600	38.8	2419	58.4	5217	66 0.4	8462	48.6	11226	33.7	12386	2
59	41.9	621	42.9	2459	58 5.1	5270	9.9	8516	77 0.6	11262	46.9	12387	1
60	43.9	642	47.0	2499	11.8	5322	19.4	8569	12.7	11297	90 0.0	12387	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	49° 0·0	0	49° 58·9	635	53° 1·6	2472	58° 25·3	5263	66° 30·5	8465	77° 19·2	11150	60
1	0·0	0	50 0·9	656	5 8	2512	32·0	5314	40·0	8517	31·2	11184	59
2	0·1	1	2·9	678	10·0	2552	38·8	5366	49·6	8569	43·3	11217	58
3	0·2	2	5·0	700	14·3	2592	45·6	5419	59·2	8620	55·3	11250	57
4	0·3	3	7·0	722	18·5	2632	52·4	5471	67 8·9	8672	78 7·4	11282	56
5	0·4	4	9·2	745	22·9	2673	59·3	5524	18·6	8723	19·5	11314	55
6	49° 0·6	6	50° 11·3	768	53° 27·3	2714	59° 6·3	5576	67° 28·3	8775	78° 31·7	11346	54
7	0·8	9	13·5	791	31·7	2755	13·3	5629	38·1	8826	43·9	11377	53
8	1·0	11	15·8	814	36·2	2797	20·3	5682	48·0	8877	56·1	11407	52
9	1·3	14	18·1	838	40·7	2839	27·4	5735	57·8	8928	79 8·4	11437	51
10	1·6	18	20·4	862	45·2	2881	34·5	5788	68 7·8	8979	20·7	11467	50
11	49° 1·9	21	50° 22·7	886	53° 49·8	2923	59° 41·7	5841	68° 17·8	9029	79° 33·0	11496	49
12	2·3	26	25·1	911	54·4	2965	48·9	5894	27·8	9079	45·3	11524	48
13	2·7	30	27·5	937	59·0	3008	56·2	5947	37·9	9129	57·7	11552	47
14	3·2	35	29·9	962	54 3·7	3052	60 3·5	6001	48·0	9179	80 10·1	11580	46
15	3·6	40	32·4	988	8·5	3096	10·8	6054	58·2	9228	22·5	11606	45
16	49° 4·2	45	50° 34·9	1014	54° 13·2	3139	60° 18·2	6107	69° 8·4	9278	80° 34·9	11633	44
17	4·7	51	37·5	1040	18·1	3183	25·7	6161	18·6	9327	47·4	11659	43
18	5·3	58	40·1	1067	22·9	3227	33·2	6215	28·9	9376	59·9	11684	42
19	5·9	64	42·7	1094	27·8	3271	40·7	6268	39·3	9424	81 12·4	11709	41
20	6·5	71	45·4	1122	32·8	3316	48·3	6321	49·7	9473	25·0	11733	40
21	49° 7·1	78	50° 48·1	1150	54° 37·8	3360	60° 55·9	6375	70° 0·1	9521	81° 37·5	11756	39
22	7·9	86	50·8	1178	42·8	3405	61 3·6	6429	10·6	9569	50·1	11779	38
23	8·6	94	53·5	1206	47·8	3451	11·3	6483	21·1	9617	82 2·7	11802	37
24	9·4	102	56·3	1235	52·9	3496	19·1	6537	31·7	9664	15·4	11824	36
25	10·2	111	59·2	1264	58·1	3542	26·9	6591	42·3	9711	28·0	11846	35
26	49° 11·0	120	51° 2·0	1294	55° 3·3	3588	61° 34·8	6645	70° 52·9	9758	82° 40·7	11867	34
27	11·8	129	5·0	1323	8·5	3634	42·7	6699	71 3·6	9805	53·4	11887	33
28	12·7	139	7·9	1353	13·8	3680	50·7	6753	14·4	9851	83 6·1	11907	32
29	13·7	149	10·9	1383	19·1	3727	58·7	6807	25·2	9897	18·8	11926	31
30	14·6	160	13·9	1413	24·5	3773	62 6·8	6861	36·0	9943	31·6	11944	30
31	49° 15·6	171	51° 16·9	1445	55° 29·9	3820	62° 14·9	6915	71° 46·9	9988	83° 44·4	11962	29
32	16·6	182	20·0	1476	35·3	3867	23·0	6969	57·8	10033	57·2	11980	28
33	17·7	193	23·2	1508	40·8	3914	31·2	7023	72 8·7	10078	84 10·0	11997	27
34	18·8	205	26·3	1539	46·3	3962	39·5	7077	19·7	10122	22·8	12013	26
35	19·9	218	29·5	1572	51·9	4010	47·8	7131	30·7	10167	35·6	12028	25
36	49° 21·1	230	51° 32·7	1604	55° 57·5	4058	62° 56·1	7185	72° 41·8	10211	84° 48·5	12043	24
37	22·3	243	36·0	1637	56 3·2	4106	63 4·5	7239	52·9	10254	85 1·4	12058	23
38	23·5	256	39·3	1670	8·9	4155	12·9	7293	73 4·1	10297	14·2	12072	22
39	24·7	270	42·7	1703	14·6	4203	21·4	7347	15·3	10340	27·1	12085	21
40	26·0	284	46·0	1737	20·4	4252	29·9	7401	26·5	10382	40·0	12098	20
41	49° 27·3	298	51° 49·4	1771	56° 26·2	4301	63° 38·5	7455	73° 37·8	10425	85° 53·0	12110	19
42	28·7	313	52·9	1805	32·1	4350	47·1	7508	49·1	10467	86 5·9	12122	18
43	30·1	327	56·4	1840	38·0	4399	55·8	7562	74 0·5	10508	18·8	12132	17
44	31·5	343	59·9	1875	44·0	4449	64 4·5	7616	11·9	10548	31·8	12142	16
45	33·0	358	52 3·5	1910	50·0	4498	13·3	7670	23·3	10589	44·8	12151	15
46	49° 34·5	375	52° 7·1	1945	56° 56·0	4548	64° 22·1	7723	74° 34·8	10629	86° 57·7	12160	14
47	36·0	391	10·8	1981	57 2·1	4598	31·0	7777	46·3	10669	87 10·7	12169	13
48	37·6	408	14·4	2017	8·2	4648	39·9	7830	57·8	10709	23·7	12177	12
49	39·1	425	18·2	2054	14·4	4699	48·9	7884	75 9·4	10748	36·7	12184	11
50	40·8	442	21·9	2090	20·6	4750	57·9	7937	21·0	10787	49·7	12191	10
51	49° 42·4	460	52° 25·7	2127	57° 26·9	4800	65° 6·9	7990	75° 32·7	10825	88° 2·7	12197	9
52	44·1	478	29·6	2164	33·2	4850	16·0	8043	44·4	10863	15·7	12202	8
53	45·8	497	33·4	2202	39·6	4902	25·1	8096	56·1	10900	28·8	12207	7
54	47·6	515	37·3	2240	46·0	4953	34·3	8149	76 7·9	10937	41·8	12211	6
55	49·4	535	41·2	2278	52·4	5004	43·6	8202	19·7	10974	54·8	12214	5
56	49° 51·2	554	52° 45·3	2316	57° 58·9	5056	65° 52·9	8255	76° 31·5	11010	89° 7·8	12217	4
57	53·1	574	49·3	2355	58 5·4	5107	66° 2·2	8307	43·4	11046	20·9	12219	3
58	55·0	594	53·4	2394	12·0	5159	11·6	8360	55·3	11081	33·9	12221	2
59	56·9	614	57·5	2433	18·6	5211	21·0	8412	77 7·2	11115	47·0	12222	1
60	58·9	635	53 1·6	2472	25·3	5263	30·5	8465	19·2	11150	90 0·0	12222	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	49°15·0	0	50°13·8	629	53°16·1	2446	58°38·8	5202	66°41·5	8361	77°25·7	11004	60
1	15·0	0	15·8	650	20·3	2485	45·5	5254	51·0	8412	37·6	11037	59
2	15·1	1	17·8	671	24·5	2525	52·2	5305	67 0·5	8463	49·5	11070	58
3	15·2	2	19·8	693	28·8	2564	59·0	5357	10·1	8514	78 1·5	11102	57
4	15·3	3	21·9	715	33·1	2604	59 5·8	5409	19·7	8565	13·5	11134	56
5	15·4	4	24·1	737	37·4	2645	12·7	5461	29·3	8616	25·6	11166	55
6	49°15·6	6	50°26·2	760	53°41·7	2685	59°19·6	5513	67°39·0	8666	78°37·6	11197	54
7	15·8	9	28·5	783	46·1	2726	26·6	5565	48·7	8717	49·7	11227	53
8	16·0	11	30·7	806	50·6	2767	33·6	5617	58·5	8767	79 1·8	11257	52
9	16·3	14	33·0	829	55·1	2809	40·6	5669	68 8·4	8817	14·0	11286	51
10	16·6	18	35·2	853	59·6	2850	47·7	5721	18·2	8867	26·2	11315	50
11	49°17·0	21	50°37·6	878	54° 4·2	2892	59°54·8	5773	68°28·1	8917	79°38·4	11344	49
12	17·3	25	40·0	902	8·8	2934	60 2·0	5826	38·1	8966	50·6	11372	48
13	17·7	30	42·4	927	13·4	2977	9·3	5878	48·1	9015	80 2·9	11399	47
14	18·1	34	44·8	952	18·1	3019	16·5	5931	58·2	9064	15·2	11426	46
15	18·5	40	47·3	978	22·9	3062	23·8	5984	69 8·3	9113	27·5	11453	45
16	49°19·1	45	50°49·8	1004	54°27·6	3105	60°31·2	6037	69°18·4	9162	80°39·8	11479	44
17	19·7	51	52·3	1030	32·4	3148	38·7	6089	28·6	9210	52·2	11504	43
18	20·3	57	54·9	1056	37·3	3192	46·1	6142	38·9	9258	81 4·6	11529	42
19	20·9	63	57·5	1083	42·2	3236	53·6	6195	49·1	9306	17·0	11553	41
20	21·5	70	51 0·2	1110	47·1	3280	61 1·2	6248	59·4	9354	29·4	11577	40
21	49°22·2	78	51° 2·9	1138	54°52·0	3324	61° 8·8	6301	70° 9·7	9401	81°41·9	11600	39
22	22·8	85	5·6	1166	57·0	3368	16·4	6354	20·2	9449	54·4	11623	38
23	23·5	93	8·4	1194	55 2·1	3413	24·1	6407	30·7	9496	82 6·9	11645	37
24	24·3	102	11·2	1222	7·2	3458	31·8	6461	41·2	9542	19·4	11667	36
25	25·1	110	14·0	1251	12·3	3503	39·6	6514	51·7	9589	31·9	11688	35
26	49°26·0	119	51°16·8	1280	55°17·5	3548	61°47·5	6567	71° 2·3	9635	82°44·5	11709	34
27	26·8	128	19·7	1309	22·7	3594	55·4	6620	12·9	9681	57·1	11729	33
28	27·7	138	22·7	1339	28·0	3640	62 3·3	6674	23·6	9726	83 9·7	11748	32
29	28·6	148	25·7	1369	33·3	3686	11·3	6727	34·3	9772	22·3	11767	31
30	29·6	158	28·7	1399	38·6	3732	19·3	6780	45·0	9817	35·0	11785	30
31	49°30·6	169	51°31·7	1430	55°44·0	3778	62°27·3	6833	71°55·8	9861	83°47·6	11803	29
32	31·6	180	34·8	1461	49·4	3825	35·4	6887	72 6·7	9906	84 0·3	11820	28
33	32·7	191	37·9	1492	54·9	3872	43·6	6940	17·5	9950	13·0	11836	27
34	33·8	203	41·1	1523	56 0·4	3919	51·8	6993	28·4	9994	25·7	11852	26
35	34·9	215	44·3	1555	6·0	3966	63 0·1	7046	39·4	10037	38·4	11868	25
36	49°36·0	228	51°47·5	1587	56°11·5	4014	63° 8·3	7100	72°50·4	10080	84°51·2	11882	24
37	37·2	240	50·8	1620	17·2	4061	16·7	7153	73 1·4	10123	85 4·0	11896	23
38	38·4	253	54·1	1653	22·9	4109	25·1	7206	12·5	10166	16·7	11910	22
39	39·7	267	57·4	1686	28·6	4157	33·5	7259	23·6	10208	29·5	11923	21
40	41·0	281	52 0·8	1719	34·4	4205	42·0	7312	34·8	10250	42·3	11936	20
41	49°42·3	295	52° 4·2	1753	56°40·2	4253	63°50·6	7366	73°46·0	10291	85°55·1	11948	19
42	43·7	310	7·6	1786	46·0	4302	59·1	7419	57·2	10332	86 7·9	11959	18
43	45·1	324	11·1	1821	51·9	4350	64 7·7	7472	74 8·5	10373	20·8	11970	17
44	46·5	340	14·6	1855	57·8	4399	16·4	7525	19·8	10413	33·6	11980	16
45	47·9	355	18·2	1890	57 3·8	4448	25·2	7578	31·1	10453	46·5	11989	15
46	49°49·4	371	52°21·8	1925	57° 9·9	4498	64°33·9	7630	74°42·5	10493	86°59·3	11998	14
47	50·9	387	25·4	1960	15·9	4547	42·7	7683	53·9	10532	87 12·2	12006	13
48	52·5	404	29·1	1996	22·0	4597	51·6	7736	75 5·4	10571	25·1	12014	12
49	54·1	421	32·8	2032	28·2	4646	65 0·5	7788	16·9	10609	38·0	12021	11
50	55·7	438	36·6	2068	34·4	4696	9·4	7841	28·4	10647	50·9	12027	10
51	49°57·4	455	52°40·4	2105	57°40·6	4746	65°18·4	7894	75°40·0	10685	88° 3·8	12033	9
52	59·0	473	44·2	2142	46·9	4796	27·5	7946	51·6	10722	16·7	12038	8
53	50 0·8	492	48·0	2179	53·2	4847	36·6	7998	76 3·3	10759	29·5	12043	7
54	2·5	510	51·9	2216	59·6	4897	45·7	8050	14·9	10795	42·5	12047	6
55	4·3	529	55·9	2254	58 6·0	4948	54·9	8102	26·6	10831	55·4	12050	5
56	50° 6·2	548	52°59·9	2292	58°12·5	4998	66° 4·2	8154	76°38·4	10866	89° 8·3	12053	4
57	8·0	568	53 3·9	2330	19·0	5049	13·4	8206	50·2	10901	21·2	12055	3
58	9·9	588	7·9	2368	25·6	5100	22·7	8258	77 2·0	10936	34·2	12057	2
59	11·8	608	12·0	2407	32·2	5151	32·1	8309	13·8	10970	47·1	12058	1
60	13·8	629	16·1	2446	38·8	5202	41·5	8361	25·7	11004	90 0·0	12058	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	49°30'0	0	50°28'7	622	53°30'7	2420	58°52'3	5143	66°52'5	8258	77°32'1	10859	60
1	30'0	0	30'7	643	34'8	2459	58'9	5194	67'1'9	8308	43'9	10892	59
2	30'1	1	32'7	665	39'0	2498	59'5'6	5245	11'4	8359	55'8	10924	58
3	30'2	2	34'8	686	43'3	2537	12'4	5296	20'9	8409	78'7'6	10956	57
4	30'3	3	36'9	708	47'6	2577	19'2	5347	30'4	8459	19'5	10987	56
5	30'4	4	39'0	730	51'9	2617	26'0	5398	40'0	8509	31'5	11018	55
6	49°30'6	6	50°41'1	752	53°56'2	2657	59°32'9	5449	67°49'7	8559	78°43'4	11049	54
7	30'8	8	43'3	775	54'0'6	2697	39'8	5500	59'3	8609	55'4	11079	53
8	31'0	11	45'6	798	5'0	2738	46'8	5552	68'9'1	8658	79'7'5	11108	52
9	31'3	14	47'8	821	9'5	2779	53'8	5603	18'8	8707	19'5	11137	51
10	31'6	17	50'1	845	14'0	2820	60'0'9	5655	28'6	8756	31'6	11166	50
11	49°31'9	21	50°52'5	869	54°18'6	2861	60°8'0	5707	68°38'5	8805	79°43'7	11194	49
12	32'3	25	54'8	893	23'2	2902	15'1	5759	48'4	8854	55'8	11221	48
13	32'7	29	57'2	917	27'8	2944	22'3	5810	58'3	8903	80'8'0	11248	47
14	33'2	34	59'7	942	32'5	2986	29'6	5862	69'8'3	8951	20'2	11275	46
15	33'6	39	51'2'1	968	37'2	3029	36'9	5914	18'4	8999	32'4	11301	45
16	49°34'1	45	51°4'6	993	54°41'9	3071	60°44'2	5966	69°28'4	9047	80°44'6	11326	44
17	34'7	50	7'2	1019	46'7	3114	51'6	6018	38'6	9094	56'9	11351	43
18	35'2	56	9'8	1046	51'6	3157	59'0	6070	48'7	9142	81'9'2	11375	42
19	35'8	63	12'4	1072	56'4	3200	61'6'5	6123	58'9	9189	21'5	11399	41
20	36'5	69	15'0	1099	55'1'4	3244	14'0	6175	70'9'2	9236	33'8	11423	40
21	49°37'1	77	51°17'7	1126	55°6'3	3288	61°21'6	6227	70°19'5	9283	81°46'2	11446	39
22	37'8	84	20'4	1153	11'3	3332	29'2	6280	29'8	9330	58'6	11468	38
23	38'6	92	23'2	1181	16'3	3376	36'8	6332	40'2	9376	82'11'0	11490	37
24	39'3	101	26'0	1210	21'4	3421	44'5	6384	50'6	9422	23'4	11511	36
25	40'1	109	28'8	1238	26'5	3465	52'3	6437	71'1'1	9467	35'8	11532	35
26	49°40'9	118	51°31'7	1267	55°31'7	3510	62°0'1	6490	71°11'6	9513	82°48'3	11552	34
27	41'8	127	34'6	1296	36'9	3555	7'9	6542	22'1	9558	83'0'8	11572	33
28	42'7	136	37'5	1325	42'1	3600	15'8	6595	32'7	9603	13'3	11591	32
29	43'6	146	40'5	1355	47'4	3645	23'7	6647	43'3	9647	25'8	11609	31
30	44'6	157	43'5	1384	52'7	3691	31'7	6699	54'0	9691	38'3	11627	30
31	49°45'6	168	51°46'5	1414	55°58'1	3737	62°39'7	6752	72°4'7	9735	83°50'9	11645	29
32	46'6	178	49'6	1445	56'3'5	3783	47'8	5805	15'5	9779	84'3'5	11662	28
33	47'6	189	52'7	1476	9'0	3829	55'9	6857	26'3	9823	16'0	11678	27
34	48'7	201	55'8	1508	14'4	3875	63'4'1	6910	37'1	9866	28'7	11693	26
35	49'9	213	59'0	1539	20'0	3922	12'3	6962	48'0	9908	41'3	11708	25
36	49°51'0	225	52°2'2	1571	56°25'6	3969	63°20'6	7015	72°58'9	9951	84°53'9	11723	24
37	52'2	238	5'5	1603	31'2	4016	28'9	7067	73'9'9	9993	85'6'6	11737	23
38	53'4	251	8'8	1635	36'8	4063	37'2	7120	20'9	10035	19'2	11750	22
39	54'7	264	12'1	1668	42'5	4110	45'6	7172	31'9	10076	31'9	11763	21
40	56'0	278	15'5	1701	48'3	4158	54'0	7224	43'0	10117	44'6	11775	20
41	49°57'3	292	52°18'9	1734	56°54'1	4206	64°2'5	7277	73°54'1	10158	85°57'3	11787	19
42	58'6	306	22'3	1768	59'9	4254	11'1	7330	74'5'2	10199	86'10'0	11798	18
43	50'0'0	321	25'8	1802	57'5'8	4302	19'6	7382	16'4	10239	22'7	11809	17
44	1'4	336	29'3	1836	11'7	4350	28'3	7434	27'6	10278	35'4	11819	16
45	2'9	351	32'9	1870	17'7	4398	36'9	7486	38'9	10318	48'2	11828	15
46	50°4'4	368	52°36'5	1905	57°23'7	4447	64°45'7	7538	74°50'2	10357	87°0'9	11836	14
47	5'9	383	40'1	1940	29'7	4496	54'4	7590	75'1'5	10395	13'7	11844	13
48	7'4	400	43'8	1975	35'8	4545	65'3'2	7642	12'9	10433	26'4	11852	12
49	9'0	416	47'4	2011	41'9	4594	12'1	7694	24'3	10471	39'2	11859	11
50	10'6	433	51'2	2046	48'1	4643	21'0	7746	35'8	10508	52'0	11865	10
51	50°12'3	451	52°55'0	2082	57°54'3	4692	65°29'9	7797	75°47'3	10545	88°4'8	11871	9
52	14'0	468	58'8	2118	58'0'6	4742	38'9	7849	58'8	10582	17'6	11876	8
53	15'7	486	53'2'6	2155	6'9	4792	48'0	7901	76'10'3	10618	30'4	11881	7
54	17'5	505	6'5	2193	13'2	4842	57'1	7952	21'9	10654	43'2	11885	6
55	19'2	524	10'5	2230	19'6	4891	66'6'2	8003	33'5	10689	56'0	11888	5
56	50°21'1	543	53°14'4	2267	58°26'1	4941	66°15'4	8054	76°45'2	10724	89°8'8	11891	4
57	22'9	562	18'4	2305	32'5	4992	24'6	8105	56'8	10759	21'6	11893	3
58	24'8	582	22'5	2343	39'1	5043	33'9	8156	77'8'6	10793	34'4	11895	2
59	26'7	602	26'5	2381	45'7	5093	43'2	8207	20'3	10826	47'2	11895	1
60	28'7	622	30'7	2420	52'3	5143	52'5	8258	32'1	10859	90'0'0	11895	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	49°45-0	0 50°43-6	616 53°45-2	2394 59° 5-7	5084 67° 3-5	8156 77°38-5	10716 60
1	45-0	0 45-6	636 49-3	2432 12-3	5134 12-8	8205 50-2	10748 59
2	45-1	1 47-6	657 53-5	2471 19-0	5184 22-2	8255 78 2-0	10780 58
3	45-2	2 49-7	679 57-8	2510 25-7	5235 31-7	8304 13-7	10811 57
4	45-3	3 51-8	700 54 2-0	2549 32-5	5285 41-1	8354 25-5	10842 56
5	45-4	4 53-9	722 6-3	2588 39-3	5335 50-7	8403 37-4	10873 55
6	49°45-6	6 50°56-0	744 54°10-7	2628 59°46-1	5386 68° 0-2	8452 78°49-2	10902 54
7	45-8	8 58-2	766 15-1	2668 53-0	5437 9-9	8501 79 1-2	10932 53
8	46-0	11 51 0-4	789 19-5	2708 60 0-0	5487 19-5	8550 13-1	10961 52
9	46-3	14 2-7	812 23-9	2748 7-0	5538 29-2	8598 25-0	10989 51
10	46-6	17 5-0	836 28-4	2789 14-0	5589 39-0	8647 37-0	11017 50
11	49°47-0	21 51° 7-3	859 54°33-0	2830 60°21-1	5640 68°48-8	8695 79°49-0	11045 49
12	47-3	25 9-7	883 37-6	2871 28-2	5691 58-6	8743 80 1-1	11072 48
13	47-7	29 12-1	908 42-2	2912 35-4	5742 69 8-5	8791 13-1	11098 47
14	48-2	34 14-5	933 46-8	2954 42-6	5794 18-4	8838 25-2	11124 46
15	48-6	39 17-0	958 51-5	2996 49-8	5845 28-4	8885 37-3	11150 45
16	49°49-1	44 51°19-5	983 54°56-2	3038 60°57-2	5896 69°38-4	8932 80°49-5	11175 44
17	49-7	50 22-0	1008 55 1-0	3080 61 4-5	5948 48-4	8979 81 1-6	11200 43
18	50-2	56 24-6	1034 5-9	3122 11-9	5999 58-5	9026 13-8	11224 42
19	50-8	62 27-2	1061 10-7	3165 19-3	6051 70 8-7	9073 26-0	11247 41
20	51-5	69 29-9	1087 15-6	3208 26-8	6102 18-8	9119 38-2	11270 40
21	49°52-1	76 51°32-5	1114 55°20-6	3251 61°34-3	6154 70°29-1	9165 81°50-4	11293 39
22	52-8	83 35-2	1141 25-5	3295 41-9	6205 39-3	9210 82 2-7	11315 38
23	53-5	91 38-0	1169 30-5	3338 49-5	6257 49-6	9256 15-0	11336 37
24	54-3	99 40-8	1197 35-6	3382 57-2	6309 71 0-0	9301 27-4	11357 36
25	55-1	108 43-6	1225 40-7	3426 62 4-9	6361 10-4	9346 39-7	11377 35
26	49°55-9	117 51°45-4	1253 55°45-8	3471 62°12-7	6412 71°20-8	9391 82°52-1	11397 34
27	56-8	126 49-3	1282 51-0	3515 20-5	6464 31-3	9436 83 4-4	11416 33
28	57-7	135 52-3	1311 56-3	3560 28-3	6516 41-8	9480 16-8	11435 32
29	58-6	145 55-2	1340 56 1-5	3605 36-2	6568 52-4	9524 29-2	11453 31
30	59-6	155 58-2	1370 6-8	3650 44-1	6620 72 3-0	9567 41-7	11471 30
31	50° 0-5	165 52° 1-3	1400 56°12-2	3695 62°52-1	6672 72°13-6	9610 83°54-1	11488 29
32	1-6	176 4-3	1430 17-6	3740 63 0-1	6723 24-3	9653 84 6-6	11504 28
33	2-6	187 7-4	1461 23-0	3786 8-2	6775 35-0	9696 19-1	11520 27
34	3-7	199 10-6	1492 28-5	3832 16-3	6827 45-8	9738 31-6	11536 26
35	4-8	211 13-8	1523 34-0	3878 24-5	6879 56-6	9780 44-1	11551 25
36	50° 6-0	223 52°17-0	1554 56°39-5	3925 63°32-7	6931 73° 7-4	9822 84°56-6	11565 24
37	7-2	236 20-2	1586 45-1	3971 41-0	6982 18-3	9864 85 9-1	11579 23
38	8-4	248 23-5	1618 50-8	4018 49-3	7034 29-2	9905 21-7	11592 22
39	9-6	262 26-8	1651 56-5	4064 57-6	7086 40-1	9946 34-2	11604 21
40	10-9	275 30-2	1683 57 2-2	4111 64 6-0	7137 51-1	9986 46-8	11616 20
41	50°12-2	289 52°33-6	1716 57° 8-0	4158 64°14-4	7189 74° 2-2	10026 85°59-4	11628 19
42	13-6	303 37-0	1749 13-8	4206 22-9	7240 13-2	10066 86 12-0	11639 18
43	15-0	318 40-5	1782 19-6	4253 31-5	7292 24-3	10105 24-6	11649 17
44	16-4	333 44-0	1816 25-5	4301 40-1	7344 35-5	10144 37-2	11659 16
45	17-8	348 47-5	1850 31-4	4349 48-7	7395 46-6	10183 49-9	11668 15
46	50°19-3	363 52°51-1	1884 57°37-4	4397 64°57-4	7446 74°57-8	10222 87° 2-5	11676 14
47	20-8	379 54-7	1919 43-4	4445 65 6-1	7497 75 9-1	10260 15-2	11684 13
48	22-4	396 58-4	1954 49-5	4493 14-8	7549 20-4	10297 27-8	11692 12
49	24-0	412 53 2-1	1989 55-6	4542 23-6	7600 31-7	10334 40-4	11699 11
50	25-6	429 5-8	2024 58 1-8	4590 32-5	7651 43-1	10371 53-1	11705 10
51	50°27-2	446 53° 9-6	2060 58° 8-0	4639 65°41-4	7702 75°54-5	10407 88° 5-8	11710 9
52	28-9	464 13-4	2096 14-2	4688 50-3	7753 76 5-9	10443 18-5	11715 8
53	30-6	482 17-2	2132 20-5	4737 59-3	7803 17-3	10479 31-2	11720 7
54	32-4	500 21-1	2169 26-8	4786 66 8-3	7854 28-8	10514 43-8	11724 6
55	34-2	518 25-0	2206 33-2	4836 17-4	7905 40-4	10548 56-5	11727 5
56	50°36-0	537 53°29-0	2243 58°39-6	4885 66°26-5	7955 76°51-9	10583 89° 9-2	11730 4
57	37-8	556 33-0	2280 46-0	4935 35-7	8005 77 3-5	10617 21-9	11732 3
58	39-7	576 37-0	2318 52-5	4984 44-9	8056 15-1	10650 34-6	11733 2
59	41-6	596 41-1	2356 59-1	5034 54-2	8106 26-8	10683 47-3	11734 1
60	43-6	616 45-2	2394 59 5-7	5084 67 3-5	8156 38-5	10716 90 0-0	11734 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H						
0	50° 0'0	0 50°58'5	609	53°59'7	2367	59°19'1	5025	67°14'4	8054	77°44'8	10574	60
1	0'0	0 51 0'5	630	54 3'8	2406	25'7	5075	23'7	8103	56'4	10605	59
2	0'1	1 2'5	650	8'0	2444	32'3	5124	33'0	8152	78 8'1	10636	58
3	0'2	2 4'5	671	12'2	2482	39'0	5173	42'4	8200	19'8	10667	57
4	0'3	3 6'6	693	16'5	2521	45'8	5223	51'8	8249	31'5	10698	56
5	0'4	4 8'7	714	20'8	2560	52'5	5273	68 1'3	8298	43'2	10728	55
6	50° 0'6	6 51°10'9	736	54°25'1	2599	59°59'4	5323	68°10'8	8346	78°55'0	10757	54
7	0'8	8 13'1	758	29'5	2638	60 6'2	5373	20'3	8394	79 6'7	10786	53
8	1'0	11 15'3	781	33'9	2678	13'1	5423	29'9	8442	18'6	10814	52
9	1'3	14 17'6	804	38'3	2718	20'1	5473	39'6	8490	30'5	10842	51
10	1'6	17 19'9	827	42'8	2758	27'1	5523	49'3	8537	42'4	10870	50
11	50° 1'9	21 51°22'2	850	54°47'3	2798	60°34'2	5574	68°59'0	8585	79°54'3	10897	49
12	2'3	25 24'5	874	51'9	2839	41'2	5625	69 8'8	8632	80 6'2	10924	48
13	2'7	29 26'9	898	56'5	2880	48'4	5675	18'6	8679	18'2	10950	47
14	3'2	33 29'4	922	55 1'1	2921	55'5	5726	28'4	8726	30'2	10975	46
15	3'6	38 31'8	947	5'8	2963	61 2'8	5776	38'3	8773	42'2	11000	45
16	50° 4'1	44 51°34'3	972	55°10'5	3004	61°10'0	5826	69°48'3	8819	80°54'2	11025	44
17	4'7	49 36'9	998	15'3	3046	17'3	5877	58'3	8865	81 6'3	11049	43
18	5'2	55 39'4	1023	20'1	3088	24'7	5928	70 8'3	8911	18'4	11073	42
19	5'8	62 42'0	1049	25'0	3130	32'1	5979	18'4	8957	30'5	11096	41
20	6'5	68 44'7	1076	29'8	3173	39'6	6029	28'5	9003	42'6	11118	40
21	50° 7'1	75 51°47'3	1103	55°34'8	3215	61°47'0	6081	70°38'6	9048	81°54'7	11140	39
22	7'8	83 50'0	1130	39'7	3258	54'6	6132	48'8	9093	82 6'9	11162	38
23	8'5	90 52'8	1157	44'7	3302	62 2'2	6183	59'1	9138	19'1	11183	37
24	9'3	98 55'6	1184	49'8	3345	9'8	6234	71 9'3	9182	31'3	11204	36
25	10'1	107 58'4	1212	54'8	3388	17'5	6285	19'6	9226	43'5	11224	35
26	50°10'9	115 52° 1'2	1240	56° 0'0	3432	62°25'2	6336	71°30'0	9270	82°55'8	11243	34
27	11'8	124 4'1	1268	5'2	3476	32'9	6387	40'4	9314	83 8'1	11262	33
28	12'7	134 7'0	1297	10'4	3520	40'7	6438	50'9	9358	20'3	11280	32
29	13'6	143 10'0	1326	15'6	3564	48'6	6489	72 1'3	9401	32'7	11298	31
30	14'5	154 13'0	1355	20'9	3609	56'5	6540	11'9	9443	45'0	11315	30
31	50°15'5	163 52°16'0	1385	56°26'2	3654	63° 4'4	6591	72°22'4	9486	83°57'3	11332	29
32	16'5	174 19'1	1415	31'6	3699	12'4	6642	33'0	9529	84 9'7	11349	28
33	17'6	185 22'2	1445	37'0	3744	20'4	6693	43'7	9571	22'0	11364	27
34	18'7	197 25'3	1475	42'5	3789	28'5	6744	54'3	9612	34'4	11379	26
35	19'8	209 28'5	1506	48'0	3835	36'6	6795	73 5'1	9654	46'8	11394	25
36	50°20'9	221 52°31'7	1537	56°53'5	3881	63°44'8	6846	73°15'8	9695	84°59'2	11408	24
37	22'1	233 34'9	1569	59'1	3926	53'0	6898	26'6	9736	85 11'7	11422	23
38	23'3	246 38'2	1600	57 4'7	3972	64 1'3	6949	37'4	9776	24'1	11435	22
39	24'6	259 41'5	1632	10'4	4019	9'6	6999	48'3	9816	36'6	11447	21
40	25'9	272 44'9	1665	16'1	4065	17'9	7050	59'2	9856	49'0	11459	20
41	50°27'2	286 52°48'3	1697	57°21'8	4111	64°26'0	7101	74°10'2	9896	86° 1'5	11470	19
42	28'5	300 51'7	1730	27'6	4158	34'8	7152	21'2	9935	14'0	11480	18
43	29'9	314 55'1	1763	33'4	4205	43'3	7203	32'2	9973	26'5	11490	17
44	31'3	329 58'6	1796	39'3	4252	51'8	7254	43'2	10012	39'0	11500	16
45	32'8	344 53 2'2	1830	45'2	4299	65 0'4	7304	54'3	10050	51'5	11509	15
46	50°34'3	359 53° 5'7	1864	57°51'2	4347	65° 9'0	7355	75° 5'5	10087	87° 4'1	11517	14
47	35'8	375 9'4	1898	57'2	4394	17'6	7405	16'6	10125	16'6	11525	13
48	37'3	391 13'0	1933	58 3'2	4442	26'4	7456	27'8	10162	29'1	11533	12
49	38'9	407 16'7	1968	9'3	4490	35'1	7506	39'0	10198	41'7	11540	11
50	40'5	424 20'4	2003	15'4	4538	43'9	7557	50'3	10234	54'2	11546	10
51	50°42'2	442 53°24'2	2038	58°21'6	4586	65°52'7	7607	76° 1'6	10270	88° 6'8	11551	9
52	43'8	459 28'0	2073	27'8	4634	66 1'6	7657	13'0	10305	19'4	11555	8
53	45'6	477 31'8	2109	34'0	4683	10'6	7707	24'3	10340	31'9	11560	7
54	47'3	495 35'7	2146	40'4	4731	19'6	7757	35'7	10375	44'5	11564	6
55	49'1	513 39'6	2182	46'7	4780	28'6	7807	47'2	10409	57'1	11567	5
56	50°50'9	532 53°43'5	2218	58°53'1	4829	66°37'7	7856	76°58'6	10443	89° 9'7	11570	4
57	52'8	550 47'5	2255	59'5	4878	46'8	7906	77 10'1	10476	22'2	11572	3
58	54'6	569 51'5	2293	59 6'0	4927	55'9	7956	21'7	10509	34'8	11574	2
59	56'6	589 55'6	2330	12'5	4976	67 5'1	8005	33'2	10542	47'4	11575	1
60	58'5	609 59'7	2367	19'1	5025	14'4	8054	44'8	10574	90 0'0	11575	0
	11 H	10 H	9 H	8 H	7 H	6 H	m					

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	50°15'0	0 51°13'4	603 54°14'2	2341 59°32'4	4967 67°25'2	7953 77°51'1	10433 60
1	15'0	0 15'4	623 18'3	2379 39'0	5015 34'4	8001 78 2'7	10464 59
2	15'1	1 17'4	644 22'5	2417 45'6	5064 43'7	8049 14'2	10494 58
3	15'2	2 19'4	664 26'7	2455 52'3	5113 53'0	8097 25'8	10525 57
4	15'3	3 21'5	685 30'9	2493 59'0	5162 68 2'4	8145 37'4	10555 56
5	15'4	4 23'6	707 35'2	2531 60 5'7	5211 11'8	8193 49'1	10584 55
6	50°15'6	6 51°25'8	728 54°39'5	2570 60°12'5	5260 68°21'3	8240 79° 0'7	10613 54
7	15'8	8 28'0	750 43'9	2609 19'4	5310 30'8	8288 12'5	10641 53
8	16'0	11 30'2	773 48'3	2648 26'3	5359 40'3	8335 24'2	10669 52
9	16'3	14 32'4	795 52'7	2688 33'2	5409 49'9	8382 35'9	10697 51
10	16'6	17 34'7	818 57'2	2728 40'2	5458 59'5	8429 47'7	10724 50
11	50°17'0	21 51°37'0	841 55° 1'7	2768 60°47'2	5508 69° 9'2	8476 79°59'5	10750 49
12	17'3	24 39'4	865 6'2	2808 54'2	5558 18'9	8522 80 11'4	10776 48
13	17'7	29 41'8	889 10'8	2848 61 1'3	5607 28'6	8569 23'2	10802 47
14	18'1	33 44'2	913 15'4	2889 8'5	5657 38'4	8615 35'1	10827 46
15	18'6	38 46'7	937 20'1	2930 15'7	5707 48'2	8661 47'0	10852 45
16	50°19'1	43 51°49'2	962 55°24'8	2971 61°22'9	5757 69°58'1	8706 80°59'0	10876 44
17	19'7	49 51'7	987 29'6	3012 30'2	5807 70 8'0	8752 81 10'9	10900 43
18	20'2	55 54'2	1013 34'4	3053 37'5	5857 18'0	8797 22'9	10923 42
19	20'8	61 56'8	1038 39'2	3095 44'9	5907 28'0	8842 34'9	10946 41
20	21'4	67 59'5	1064 44'0	3137 52'3	5958 38'0	8887 46'9	10968 40
21	50°22'1	74 52° 2'1	1091 55°49'0	3179 61°59'7	6008 70°48'1	8931 81°59'0	10990 39
22	22'8	82 4'8	1117 53'9	3222 62 7'2	6058 58'2	8976 82 11'0	11011 38
23	23'6	89 7'6	1144 58'9	3265 14'8	6108 71 8'4	9020 23'1	11032 37
24	24'3	97 10'4	1171 56 3'9	3307 22'3	6159 18'6	9064 35'2	11052 36
25	25'1	105 13'2	1199 9'0	3350 30'0	6209 28'9	9107 47'4	11071 35
26	50°25'9	114 52°16'0	1227 56°14'1	3393 62°37'7	6259 71°39'2	9150 82°59'5	11091 34
27	26'8	123 18'9	1255 19'2	3437 45'4	6310 49'5	9193 83 11'7	11109 33
28	27'7	132 21'8	1283 24'4	3480 53'1	6360 59'9	9236 23'8	11127 32
29	28'6	142 24'7	1312 29'7	3524 63 1'0	6411 72 10'3	9279 36'0	11145 31
30	29'5	152 27'7	1341 34'9	3568 8'8	6461 20'7	9321 48'3	11162 30
31	50°30'5	162 52°30'7	1370 56°40'3	3612 63°16'7	6511 72°31'2	9363 84° 0'5	11178 29
32	31'5	173 33'8	1400 45'6	3657 24'7	6562 41'7	9405 12'7	11194 28
33	32'6	183 36'9	1430 51'0	3701 32'6	6612 52'3	9446 25'0	11210 27
34	33'7	195 40'0	1460 56'4	3746 40'7	6662 73 2'9	9487 37'2	11225 26
35	34'8	206 43'2	1490 57 1'9	3791 48'8	6713 13'5	9528 49'6	11239 25
36	50°35'9	218 52°46'4	1521 57° 7'4	3836 63°56'9	6763 73°24'2	9568 85° 1'9	11253 24
37	37'1	231 49'6	1552 12'9	3881 64 5'1	6813 34'9	9608 14'2	11266 23
38	38'3	243 52'9	1583 18'6	3927 13'3	6864 45'7	9648 26'5	11279 22
39	39'6	256 56'2	1615 24'2	3973 21'5	6914 56'5	9688 38'9	11291 21
40	40'8	269 59'5	1647 29'9	4018 29'8	6964 74 7'3	9727 51'2	11303 20
41	50°42'2	283 53° 2'9	1679 57°35'6	4064 64°38'2	7014 74°18'1	9765 86° 3'6	11314 19
42	43'5	297 6'3	1711 41'4	4111 46'6	7064 29'0	9804 16'0	11324 18
43	44'9	311 9'8	1744 47'2	4157 55'0	7114 40'0	9842 28'4	11334 17
44	46'3	326 13'3	1777 53'0	4203 65 3'5	7164 51'0	9880 40'8	11343 16
45	47'7	340 16'8	1810 59'0	4250 12'0	7214 75 2'0	9917 53'2	11352 15
46	50°49'2	356 53°20'4	1844 58° 4'9	4297 65°20'6	7264 75°13'0	9954 87° 5'6	11360 14
47	50'7	371 24'0	1878 10'9	4344 29'2	7314 24'1	9991 18'0	11368 13
48	52'3	387 27'6	1912 16'9	4391 37'8	7364 35'2	10027 30'4	11375 12
49	53'9	403 31'3	1946 22'9	4438 46'6	7413 46'3	10063 42'9	11382 11
50	55'5	420 35'0	1981 29'0	4485 55'3	7463 57'5	10099 55'3	11388 10
51	50°57'1	437 53°38'7	2016 58°35'2	4533 66° 4'1	7512 76° 8'7	10134 88° 7'8	11393 9
52	58'8	454 42'5	2051 41'4	4581 12'9	7562 20'0	10169 20'2	11398 8
53	51 0'5	472 46'4	2086 47'6	4628 21'8	7611 31'3	10203 32'7	11402 7
54	2'2	489 50'2	2122 53'9	4676 30'7	7660 42'6	10237 45'1	11406 6
55	4'0	508 54'1	2158 59 0'2	4724 39'7	7709 53'9	10271 57'6	11409 5
56	51° 5'8	526 53°58'0	2194 59° 6'6	4773 66°48'7	7758 77° 5'3	10304 89°10'1	11412 4
57	7'7	545 54 2'0	2231 13'0	4821 57'8	7807 16'7	10337 22'6	11414 3
58	9'5	564 6'0	2267 19'4	4869 67 6'9	7856 28'1	10369 35'1	11415 2
59	11'5	583 10'1	2304 25'9	4918 16'0	7905 39'6	10401 47'5	11416 1
60	13'4	603 14'2	2341 32'4	4967 25'2	7953 51'1	10433 90 0'0	11416 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	50°30'0	0 51°28'3	597 54°28'6	2316 59°45'7	4908 67°36'0	7853 77°57'4	10293 60
1	30'0	0 30'3	617 32'8	2353 52'3	4956 45'2	7900 78 8'8	10323 59
2	30'1	1 32'3	637 36'9	2390 58'9	5004 54'4	7948 20'3	10353 58
3	30'2	1 34'3	657 41'1	2428 60 5'5	5052 68 3'7	7995 31'8	10383 57
4	30'3	3 36'4	678 45'3	2465 12'2	5101 13'0	8042 43'3	10412 56
5	30'4	4 38'5	699 49'6	2503 18'9	5149 22'3	8089 54'9	10441 55
6	50°30'6	6 51°40'7	720 54°53'9	2542 60°25'7	5198 68°31'7	8136 79° 6'4	10470 54
7	30'8	8 42'8	742 58'2	2580 32'5	5247 41'1	8182 18'1	10498 53
8	31'0	11 45'0	764 55 2'6	2619 39'3	5296 50'6	8229 29'7	10525 52
9	31'3	14 47'3	787 7'0	2658 46'2	5344 69 0'1	8275 41'3	10552 51
10	31'6	17 49'6	810 11'5	2697 53'2	5393 9'7	8321 53'0	10579 50
11	50°31'9	20 51°51'9	832 55°16'0	2737 61° 0'1	5442 69°19'3	8367 80° 4'7	10605 49
12	32'3	24 54'2	855 20'5	2777 7'2	5491 28'9	8413 16'5	10630 48
13	32'7	28 56'6	879 25'1	2816 14'2	5540 38'6	8459 28'2	10656 47
14	33'2	33 59'0	903 29'7	2856 21'3	5590 48'3	8504 40'0	10681 46
15	33'6	38 52 1'5	927 34'4	2896 28'5	5639 58'1	8549 51'8	10705 45
16	50°34'1	42 52° 4'0	952 55°39'1	2937 61°35'7	5688 70° 7'9	8594 81° 3'7	10729 44
17	34'6	48 6'5	977 43'8	2978 42'9	5738 17'8	8639 15'5	10752 43
18	35'2	54 9'1	1002 48'6	3019 50'2	5787 27'7	8684 27'4	10775 42
19	35'8	60 11'6	1027 53'4	3060 57'5	5836 37'6	8728 39'3	10797 41
20	36'4	66 14'3	1053 58'2	3101 62 4'9	5886 47'6	8772 51'2	10819 40
21	50°37'1	74 52°16'9	1079 56° 3'1	3143 62°12'4	5935 70°57'6	8815 82° 3'2	10840 39
22	37'8	81 19'6	1105 8'1	3185 19'8	5985 71 7'6	8859 15'1	10861 38
23	38'5	88 22'4	1132 13'0	3228 27'3	6035 17'7	8903 27'1	10882 37
24	39'3	96 25'1	1159 18'0	3270 34'9	6084 27'8	8946 39'1	10902 36
25	40'1	104 27'9	1186 23'1	3312 42'5	6134 38'0	8989 51'1	10921 35
26	50°40'9	113 52°30'8	1214 56°28'2	3355 62°50'1	6183 71°48'2	9032 83° 3'2	10940 34
27	41'7	122 33'6	1241 33'3	3398 57'8	6233 58'5	9074 15'2	10958 33
28	42'6	131 36'5	1269 38'5	3440 63 5'5	6283 72 8'8	9116 27'3	10975 32
29	43'5	140 39'5	1298 43'7	3484 13'3	6332 19'1	9158 39'4	10993 31
30	44'5	150 42'5	1326 48'9	3528 21'1	6382 29'5	9199 51'5	11009 30
31	50°45'5	160 52°45'5	1355 56°54'2	3572 63°29'0	6432 72°39'9	9241 84° 3'6	11026 29
32	46'5	171 48'5	1385 59'6	3615 36'8	6481 50'4	9282 15'8	11041 28
33	47'5	181 51'6	1414 57 4'9	3659 44'8	6531 73 0'8	9322 28'0	11056 27
34	48'6	193 54'7	1444 10'4	3703 52'8	6581 11'4	9363 40'1	11071 26
35	49'7	204 57'9	1474 15'8	3748 64 0'8	6631 21'9	9403 52'3	11085 25
36	50°50'9	216 53° 1'1	1504 57°21'3	3792 64° 8'9	6680 73°32'5	9442 85° 4'5	11099 24
37	52'1	228 4'3	1535 26'9	3837 17'0	6730 43'2	9482 16'7	11112 23
38	53'3	241 7'6	1566 32'4	3882 25'2	6779 53'8	9521 29'0	11124 22
39	54'5	253 10'9	1597 38'1	3927 33'4	6829 74 4'5	9560 41'2	11136 21
40	55'8	267 14'2	1628 43'7	3972 41'7	6878 15'3	9599 53'4	11147 20
41	50°57'1	280 53°17'6	1660 57°49'4	4018 64°50'0	6928 74°26'1	9637 86° 5'7	11158 19
42	58'4	294 21'0	1693 55'2	4063 58'3	6977 36'9	9674 18'0	11169 18
43	59'8	308 24'4	1725 58 0'9	4109 65 6'7	7026 47'7	9712 30'2	11179 17
44	51 1'2	322 27'9	1758 6'8	4155 15'1	7075 58'6	9749 42'5	11188 16
45	2'7	337 31'4	1791 12'6	4201 23'6	7125 75 9'6	9786 54'8	11196 15
46	51° 4'2	352 53°35'0	1824 58°18'6	4247 65°32'1	7174 75°20'5	9822 87° 7'2	11204 14
47	5'7	367 38'6	1857 24'5	4293 40'7	7223 31'5	9858 19'5	11212 13
48	7'2	383 42'2	1890 30'5	4339 49'3	7272 42'5	9894 31'8	11219 12
49	8'8	399 45'9	1924 36'5	4386 57'9	7321 53'6	9930 44'1	11225 11
50	10'4	415 49'6	1959 42'6	4433 66 6'6	7370 76 4'7	9965 56'4	11231 10
51	51°12'0	432 53°53'3	1993 58°48'7	4480 66°15'4	7419 76°15'8	9999 88° 8'8	11237 9
52	13'7	449 57'1	2028 54'9	4528 24'2	7468 27'0	10033 21'2	11242 8
53	15'4	467 54 0'9	2063 59 1'1	4575 33'0	7516 38'2	10067 33'5	11245 7
54	17'1	484 4'7	2098 7'4	4622 41'9	7564 49'4	10101 45'8	11249 6
55	18'9	502 8'6	2134 13'7	4669 50'8	7612 77 0'6	10134 58'2	11253 5
56	51°20'7	520 54°12'5	2170 59°20'0	4716 66°59'7	7660 77°11'9	10166 89°10'5	11255 4
57	22'6	539 16'5	2206 26'4	4764 67 8'7	7709 23'2	10198 22'9	11257 3
58	24'4	558 20'5	2242 32'8	4812 17'8	7757 34'6	10230 35'3	11258 2
59	26'4	577 24'6	2279 39'2	4860 26'9	7805 46'0	10262 47'6	11259 1
60	28'3	597 28'6	2316 45'7	4908 36'0	7853 57'4	10293 90 0'0	11259 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	50°45'0	01 51°43'2	590 54°43'1	2290 59°59'0	4850 67°46'7	7753 78° 3'6	10154 60
1	45'0	0 45'2	610 47'2	2326 60 5'5	4897 55'9	7799 14'9	10184 59
2	45'1	1 47'2	630 51'3	2363 12'1	4945 58 5'0	7846 26'3	10214 58
3	45'1	1 49'2	650 55'5	2400 18'7	4992 14'2	7893 37'7	10243 57
4	45'3	3 51'3	671 59'7	2438 25'4	5040 23'5	7939 49'1	10272 56
5	45'4	4 53'4	692 55 4'0	2475 32'0	5088 32'8	7985 79 0'6	10300 55
6	50°45'6	6 51°55'5	713 55° 8'2	2513 60°38'8	5136 68°42'1	8031 79°12'1	10328 54
7	45'8	8 57'7	734 12'6	2551 45'5	5184 51'5	8077 23'6	10355 53
8	46'0	11 59'9	756 16'9	2590 52'4	5232 69 0'9	8123 35'1	10383 52
9	46'3	13 52 2'1	778 21'4	2628 59'2	5280 10'3	8169 46'7	10409 51
10	46'6	17 4'4	801 25'8	2667 61 6'1	5328 19'8	8214 58'3	10435 50
11	50°46'9	20 52° 6'7	823 55°30'3	2706 61°13'1	5377 69°29'4	8260 80° 9'9	10461 49
12	47'3	24 9'1	846 34'8	2745 20'1	5425 38'9	8305 21'5	10486 48
13	47'7	28 11'4	870 39'4	2784 27'1	5474 48'6	8349 33'2	10511 47
14	48'2	32 13'9	893 44'0	2824 34'2	5522 58'2	8394 44'9	10535 46
15	48'6	37 16'3	917 48'6	2864 41'3	5571 70 7'9	8439 56'6	10559 45
16	50°49'1	42 52°18'8	942 55°53'3	2904 61°48'5	5620 70°17'7	8483 81° 8'3	10582 44
17	49'6	48 21'3	966 58'0	2944 55'7	5668 27'4	8527 20'1	10605 43
18	50'2	53 23'9	991 56 2'8	2985 62 2'9	5717 37'3	8571 31'9	10628 42
19	50'8	60 26'5	1016 7'6	3026 10'2	5766 47'1	8615 43'7	10650 41
20	51'4	66 29'1	1041 12'4	3067 17'5	5815 57'0	8658 55'5	10671 40
21	50°52'1	73 52°31'7	1067 56°17'3	3108 62°24'9	5863 71° 7'0	8701 82° 7'3	10692 39
22	52'8	80 34'4	1093 22'2	3149 32'4	5912 17'0	8744 19'2	10713 38
23	53'5	87 37'1	1119 27'1	3191 39'8	5961 27'0	8787 31'1	10733 37
24	54'3	95 39'9	1146 32'1	3232 47'3	6010 37'0	8829 43'0	10752 36
25	55'1	103 42'7	1173 37'2	3274 54'9	6059 47'1	8871 54'9	10771 35
26	50°55'9	112 52°45'5	1200 56°42'2	3316 63° 2'5	6108 71°57'3	8913 83° 6'8	10789 34
27	56'7	121 48'4	1228 47'3	3359 10'1	6157 72 7'5	8955 18'8	10807 33
28	57'6	130 51'3	1255 52'5	3401 17'8	6206 17'7	8997 30'8	10825 32
29	58'5	139 54'2	1284 57'7	3444 25'5	6255 27'9	9038 42'8	10842 31
30	59'5	149 57'2	1312 57 2'9	3487 33'3	6304 38'2	9078 54'8	10858 30
31	51° 0'4	159 53° 0'2	1341 57° 8'2	3530 63°41'1	6353 72°48'6	9119 84° 6'8	10874 29
32	1'5	169 3'2	1369 13'5	3573 49'0	6402 58'9	9160 18'8	10890 28
33	2'5	180 6'3	1399 18'9	3617 56'9	6451 73 9'4	9200 30'9	10905 27
34	3'6	191 9'4	1428 24'3	3661 64 4'8	6500 19'8	9239 42'9	10919 26
35	4'7	202 12'6	1458 29'7	3704 12'8	6549 30'3	9279 55'0	10933 25
36	51° 5'8	214 53°15'8	1488 57°35'2	3748 64°20'9	6598 73°40'8	9318 85° 7'1	10946 24
37	7'0	225 19'0	1518 40'7	3793 28'9	6646 51'4	9357 19'2	10959 23
38	8'2	238 22'2	1549 46'3	3837 37'1	6695 74 2'0	9395 31'3	10971 22
39	9'5	251 25'5	1580 51'9	3882 45'2	6744 12'6	9433 43'5	10983 21
40	10'8	264 28'8	1611 57'5	3926 53'4	6793 23'2	9471 55'6	10994 20
41	51°12'1	277 53°32'2	1642 58° 3'2	3971 65° 1'7	6841 74°33'9	9509 86° 7'8	11005 19
42	13'4	291 35'6	1674 8'9	4016 10'0	6890 44'7	9546 19'9	11015 18
43	14'8	305 39'0	1706 14'7	4061 18'3	6939 55'4	9583 32'1	11024 17
44	16'2	319 42'5	1738 20'5	4106 26'7	6987 75 6'3	9619 44'3	11033 16
45	17'6	334 46'0	1771 26'3	4152 35'1	7036 17'1	9656 56'5	11042 15
46	51°19'1	348 53°49'6	1803 58°32'2	4198 65°43'6	7084 75°28'0	9691 87° 8'7	11050 14
47	20'6	363 53'2	1837 38'1	4243 52'1	7132 38'9	9727 20'9	11057 13
48	22'1	379 56'8	1870 44'1	4289 66 0'7	7181 49'8	9762 33'1	11064 12
49	23'7	395 54 0'4	1903 50'1	4335 9'3	7229 76 0'8	9797 45'3	11070 11
50	25'3	411 4'1	1937 56'2	4381 17'9	7277 11'8	9831 57'5	11076 10
51	51°26'9	427 54° 7'8	1971 59° 2'3	4428 66°26'6	7325 76°22'8	9865 88° 9'8	11081 9
52	28'6	444 11'6	2006 8'4	4474 35'4	7373 33'9	9899 22'0	11086 8
53	30'3	462 15'4	2040 14'6	4520 44'1	7421 45'0	9932 34'2	11090 7
54	32'1	479 19'3	2075 20'8	4567 52'9	7469 56'1	9965 46'5	11094 6
55	33'8	497 23'1	2110 27'1	4614 67 1'8	7516 77 7'3	9997 58'7	11097 5
56	51°35'6	515 54°27'0	2146 59°33'4	4661 67°10'7	7564 77°18'5	10030 89°11'0	11099 4
57	37'5	533 31'0	2181 39'7	4708 19'7	7611 29'7	10062 23'2	11101 3
58	39'3	552 35'0	2217 46'1	4755 28'6	7658 41'0	10093 35'5	11103 2
59	41'2	571 39'0	2253 52'5	4802 37'7	7706 52'3	10124 47'7	11104 1
60	43'2	590 43'1	2290 59'0	4850 46'7	7753 78 3'6	10154 90 0'0	11104 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	51° 0·0	0 51°58·1	584 54°57·5	2264 60°12·3	4792 67°57·4	7653 78° 9·8	10016 60
1	0·0	0 52 0·0	603 55 1·6	2300 18·8	4838 68 6·5	7699 21·0	10046 59
2	0·1	1 2·0	623 5·7	2337 25·3	4885 15·6	7745 32·3	10075 58
3	0·1	1 4·1	643 9·9	2373 31·9	4933 24·7	7791 43·6	10104 57
4	0·3	3 6·1	664 14·1	2410 38·5	4980 33·9	7837 55·0	10132 56
5	0·4	4 8·2	684 18·3	2447 45·1	5027 43·1	7883 79 6·3	10160 55
6	51° 0·6	6 52°10·4	705 55°22·6	2485 60°51·8	5075 68°52·4	7928 79°17·7	10188 54
7	0·8	8 12·5	726 26·9	2522 58·6	5122 69 1·7	7973 29·1	10214 53
8	1·0	10 14·7	748 31·3	2560 61 5·4	5169 11·1	8018 40·6	10241 52
9	1·3	13 17·0	770 35·7	2598 12·2	5217 20·5	8063 52·0	10267 51
10	1·6	16 19·3	792 40·1	2637 19·1	5265 29·9	8108 80 3·5	10293 50
11	51° 1·9	19 52°21·6	815 55°44·6	2675 61°26·0	5312 69°39·4	8153 80°15·1	10318 49
12	2·3	24 23·9	837 49·1	2714 32·9	5360 48·9	8197 26·6	10343 48
13	2·7	27 26·3	860 53·6	2753 39·9	5408 58·5	8241 38·1	10367 47
14	3·1	32 28·7	884 58·2	2792 47·0	5456 70 8·0	8285 49·7	10391 46
15	3·6	37 31·1	907 56 2·8	2831 54·1	5503 17·7	8329 81 1·4	10414 45
16	51° 4·1	42 52°33·6	931 56° 7·5	2871 62° 1·2	5552 70°27·4	8373 81°13·0	10437 44
17	4·6	47 36·1	955 12·2	2911 8·4	5599 37·1	8416 24·6	10460 43
18	5·2	53 38·7	980 16·9	2951 15·6	5648 46·8	8459 36·3	10482 42
19	5·8	59 41·2	1005 21·7	2991 22·8	5696 56·6	8502 48·0	10503 41
20	6·4	65 43·8	1030 26·5	3032 30·1	5744 71 6·5	8544 59·7	10524 40
21	51° 7·1	72 52°46·5	1056 56°31·4	3072 62°37·5	5792 71°16·3	8587 82°11·5	10545 39
22	7·8	79 49·2	1081 36·3	3113 44·9	5840 26·2	8629 23·2	10565 38
23	8·5	87 51·9	1107 41·2	3154 52·3	5888 36·2	8671 35·0	10585 37
24	9·2	94 54·6	1133 46·2	3195 59·8	5937 46·2	8713 46·8	10604 36
25	10·0	103 57·4	1160 51·2	3237 63 7·3	5985 56·2	8755 58·6	10623 35
26	51°10·8	110 53° 0·3	1187 56°56·3	3278 63°14·8	6032 72° 6·3	8796 83°10·5	10641 34
27	11·7	119 3·1	1214 57 1·4	3320 22·4	6081 16·4	8837 22·3	10659 33
28	12·6	128 6·0	1242 6·5	3362 30·1	6130 26·5	8878 34·2	10676 32
29	13·5	137 8·9	1270 11·7	3405 37·8	6178 36·7	8918 46·1	10692 31
30	14·4	147 11·9	1298 16·9	3447 45·5	6226 46·9	8958 58·0	10708 30
31	51°15·4	157 53°14·9	1326 57°22·1	3490 63°53·3	6274 72°57·2	8998 84° 9·9	10724 29
32	16·4	167 17·9	1354 27·4	3532 64 1·1	6322 73 7·5	9038 21·8	10739 28
33	17·5	178 21·0	1383 32·8	3575 9·0	6371 17·8	9078 33·8	10754 27
34	18·6	189 24·1	1412 38·2	3618 16·9	6419 28·2	9117 45·7	10768 26
35	19·7	200 27·2	1442 43·6	3661 24·8	6467 38·6	9155 57·7	10782 25
36	51°20·8	212 53°30·4	1472 57°49·0	3705 64°32·8	6515 73°49·0	9194 85° 9·7	10795 24
37	22·0	223 33·6	1502 54·5	3748 40·8	6563 59·5	9232 21·7	10807 23
38	23·2	236 36·9	1532 58 0·0	3792 48·9	6612 74 10·0	9270 33·7	10819 22
39	24·4	248 40·2	1562 5·6	3836 57·0	6660 20·6	9308 45·8	10831 21
40	25·7	261 43·5	1593 11·2	3880 65 5·2	6708 31·2	9346 57·8	10842 20
41	51°27·0	274 53°46·8	1624 58°16·9	3924 65°13·4	6756 74°41·8	9383 86° 9·8	10852 19
42	28·3	287 50·2	1656 22·6	3969 21·6	6804 52·4	9419 21·9	10862 18
43	29·7	302 53·6	1687 28·3	4014 29·9	6852 75 3·1	9455 33·9	10871 17
44	31·1	315 57·1	1719 34·1	4059 38·3	6899 13·8	9490 46·0	10880 16
45	32·5	330 54 0·6	1752 39·9	4103 46·7	6947 24·6	9526 58·1	10889 15
46	51°34·0	345 54° 4·1	1784 58°45·8	4148 65°55·1	6995 75°35·4	9561 87°10·2	10897 14
47	35·5	359 7·7	1816 51·7	4193 66 3·5	7042 46·3	9596 22·3	10904 13
48	37·1	375 11·3	1849 57·7	4238 12·0	7090 57·1	9631 34·4	10911 12
49	38·6	391 15·0	1882 59 3·7	4284 20·6	7138 76 8·0	9665 46·5	10917 11
50	40·2	406 18·6	1915 9·7	4330 29·2	7185 18·9	9699 58·6	10923 10
51	51°41·9	423 54°22·4	1949 59°15·8	4375 66°37·8	7232 76°29·8	9732 88°10·7	10928 9
52	43·5	440 26·1	1983 21·9	4421 46·5	7279 40·8	9765 22·9	10932 8
53	45·2	457 29·9	2017 28·0	4467 55·2	7327 51·8	9798 35·0	10936 7
54	47·0	474 33·7	2052 34·2	4513 67 4·0	7374 77 2·9	9830 47·1	10940 6
55	48·7	491 37·6	2087 40·4	4559 12·8	7421 13·9	9862 59·3	10943 5
56	51°50·5	509 54°41·5	2122 59°46·7	4605 67°21·6	7468 77°25·0	9894 89°11·4	10946 4
57	52·4	527 45·5	2157 53·0	4652 30·5	7514 36·2	9925 23·6	10948 3
58	54·2	546 49·5	2193 59·4	4698 39·4	7561 47·4	9956 35·7	10949 2
59	56·1	565 53·6	2228 60 5·8	4745 48·4	7607 58·6	9986 47·8	10949 1
60	58·1	584 57·5	2264 12·3	4792 57·4	7653 78 9·8	10016 90 0·0	10950 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	51°15.0	0	52°13.0	578	55°11.9	2238	60°25.5	4734	63° 8.1	7555	78°15.9	9880	60
1	15.0	0	14.9	597	16.0	2274	31.9	4780	17.1	7600	27.1	9909	59
2	15.1	1	16.9	616	20.1	2310	38.4	4827	26.1	7646	38.3	9938	58
3	15.1	1	18.9	636	24.2	2347	45.0	4873	35.2	7691	49.5	9966	57
4	15.3	3	21.0	656	28.4	2383	51.6	4920	44.3	7736	79 0.7	9994	56
5	15.4	4	23.1	677	32.7	2419	58.2	4966	53.5	7780	12.0	10021	55
6	51°15.6	6	52°25.2	697	55°36.9	2456	61° 4.9	5013	69° 2.7	7825	79°23.3	10048	54
7	15.8	8	27.4	718	41.2	2494	11.6	5059	12.0	7870	34.6	10074	53
8	16.0	10	29.6	740	45.6	2531	18.3	5106	21.2	7914	46.0	10100	52
9	16.3	13	31.8	761	50.0	2569	25.1	5153	30.6	7958	57.3	10126	51
10	16.6	16	34.1	783	54.4	2607	32.0	5200	39.9	8002	80 8.7	10151	50
11	51°16.9	19	52°36.4	805	55°58.8	2645	61°38.8	5247	69°49.3	8046	80°20.1	10176	49
12	17.3	23	38.7	828	56 3.3	2683	45.8	5294	58.8	8090	31.6	10201	48
13	17.7	27	41.1	851	7.9	2721	52.7	5342	70 8.3	8134	43.1	10225	47
14	18.1	32	43.5	874	12.4	2760	59.7	5389	17.8	8177	54.5	10248	46
15	18.6	36	45.9	897	17.0	2799	62 6.8	5436	27.4	8220	81 6.1	10271	45
16	51°19.1	41	52°48.4	921	56°21.7	2838	62°13.9	5483	70°37.0	8263	81°17.6	10294	44
17	19.6	47	50.9	945	26.4	2877	21.0	5531	46.6	8305	29.2	10316	43
18	20.2	52	53.4	969	31.1	2917	28.2	5578	56.3	8348	40.7	10337	42
19	20.8	58	56.0	994	35.9	2956	35.4	5625	71 6.1	8390	52.3	10358	41
20	21.4	65	58.6	1019	40.7	2996	42.7	5673	15.8	8432	82 4.0	10379	40
21	51°22.1	71	53° 1.3	1044	56°45.5	3037	62°50.0	5720	71°25.6	8474	82°15.6	10399	39
22	22.7	78	3.9	1069	50.4	3077	57.3	5768	35.5	8516	27.2	10419	38
23	23.5	86	6.6	1095	55.3	3117	63 4.7	5815	45.4	8557	38.9	10439	37
24	24.2	93	9.4	1121	57 0.2	3158	12.1	5863	55.3	8598	50.6	10458	36
25	25.0	101	12.2	1147	5.2	3199	19.6	5910	72 5.2	8639	83 2.3	10476	35
26	51°25.8	109	53°15.0	1174	57°10.3	3240	63°27.1	5958	72°15.2	8680	83°14.1	10493	34
27	26.7	118	17.8	1201	15.4	3281	34.7	6006	25.3	8720	25.8	10511	33
28	27.6	127	20.7	1228	20.5	3323	42.3	6053	35.3	8760	37.6	10528	32
29	28.5	136	23.6	1255	25.6	3365	50.0	6101	45.4	8800	49.4	10544	31
30	29.4	145	26.6	1283	30.8	3407	57.6	6148	55.6	8840	84 1.2	10560	30
31	51°30.4	156	53°29.6	1311	57°36.1	3449	64° 5.4	6196	73° 5.8	8879	84°13.0	10575	29
32	31.4	165	32.6	1339	41.3	3491	13.1	6244	16.0	8918	24.8	10590	28
33	32.4	176	35.7	1368	46.6	3533	21.0	6291	26.2	8956	36.7	10605	27
34	33.5	187	38.8	1397	52.0	3576	28.8	6339	36.5	8995	48.5	10619	26
35	34.6	198	41.9	1426	57.4	3618	36.7	6386	46.9	9033	85 0.4	10632	25
36	51°35.8	209	53°45.1	1455	58° 2.8	3661	64°44.7	6434	73°57.2	9071	85°12.3	10645	24
37	36.9	221	48.3	1485	8.3	3704	52.7	6481	74 7.6	9109	24.2	10657	23
38	38.1	233	51.5	1515	13.8	3748	65 0.7	6529	18.1	9146	36.1	10669	22
39	39.4	245	54.8	1545	19.4	3791	8.8	6576	28.5	9183	48.0	10680	21
40	40.7	258	58.1	1575	25.0	3835	16.9	6623	39.0	9220	59.9	10691	20
41	51°42.0	271	54° 1.4	1606	58°30.6	3878	65°25.0	6671	74°49.6	9256	86°11.9	10701	19
42	43.3	284	4.8	1637	36.3	3922	33.2	6718	75 0.1	9292	23.8	10711	18
43	44.7	298	8.2	1668	42.0	3966	41.5	6765	10.7	9327	35.8	10720	17
44	46.1	312	11.7	1700	47.8	4010	49.8	6812	21.4	9363	47.7	10729	16
45	47.5	326	15.2	1731	53.6	4054	58.1	6859	32.0	9398	59.7	10737	15
46	51°49.0	341	54°18.7	1763	58°59.4	4099	66° 6.5	6906	75°42.8	9432	87°11.7	10745	14
47	50.5	356	22.2	1796	59 5.3	4144	14.9	6953	53.5	9467	23.7	10752	13
48	52.0	371	25.9	1828	11.2	4188	23.3	7000	76 4.3	9501	35.7	10759	12
49	53.6	387	29.5	1861	17.2	4233	31.8	7047	15.1	9534	47.7	10765	11
50	55.2	402	33.2	1894	23.2	4278	40.4	7094	25.9	9567	59.7	10770	10
51	51°56.8	419	54°36.9	1927	59°29.2	4323	66°49.0	7140	76°36.8	9600	88°11.7	10775	9
52	58.5	435	40.6	1961	35.3	4368	57.6	7187	47.7	9633	23.7	10780	8
53	52 0.2	452	44.4	1995	41.4	4414	67 6.2	7233	58.6	9665	35.7	10784	7
54	1.9	469	48.2	2029	47.6	4459	15.0	7279	77 9.5	9697	47.7	10788	6
55	3.6	486	52.1	2063	53.8	4505	23.7	7326	20.5	9728	59.8	10791	5
56	52° 5.4	504	54°56.0	2098	60° 0.0	4550	67°32.5	7372	77°31.5	9759	89°11.8	10793	4
57	7.3	522	59.9	2133	6.3	4596	41.3	7417	42.6	9790	23.9	10795	3
58	9.1	540	55 3.9	2168	12.7	4642	50.2	7463	53.7	9820	35.9	10796	2
59	11.0	559	7.9	2203	19.1	4688	59.1	7509	78 4.8	9850	48.0	10797	1
60	13.0	578	11.9	2238	25.5	4734	68 8.1	7555	15.9	9880	90 0.0	10797	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	51°30·0	0 52°27·8	572 55°26·3	2212 60°38·6	4677 68°18·7	7457 78°22·0	9745 60
1	30·0	0 29·8	590 30·3	2248 45·1	4723 27·6	7502 33·1	9773 59
2	30·1	1 31·8	609 34·5	2284 51·5	4768 36·6	7546 44·2	9801 58
3	30·1	1 33·8	629 38·6	2320 58·1	4814 45·6	7591 55·3	9829 57
4	30·3	3 35·9	649 42·8	2356 61 4·6	4860 54·7	7635 79 6·5	9856 56
5	30·4	4 38·0	669 47·0	2392 11·2	4906 69 3·8	7679 17·6	9883 55
6	51°30·6	6 52°40·1	690 55°51·2	2428 61°17·8	4952 69°12·9	7723 79°28·8	9910 54
7	30·8	8 42·2	710 55·5	2465 24·5	4998 22·2	7767 40·1	9936 53
8	31·0	10 44·4	731 59·9	2502 31·2	5044 31·4	7811 51·3	9961 52
9	31·3	13 46·6	753 56 4·2	2539 38·0	5090 40·6	7854 80 2·6	9986 51
10	31·6	16 48·9	775 8·6	2576 44·8	5136 49·9	7898 13·9	10011 50
11	51°31·9	19 52°51·2	797 56°13·1	2614 61°51·7	5183 69°59·3	7941 80°25·2	10036 49
12	32·3	23 53·5	819 17·5	2652 58·6	5230 70 8·7	7985 36·6	10060 48
13	32·7	27 55·9	841 22·1	2690 62 5·5	5276 18·1	8027 47·9	10083 47
14	33·1	31 58·3	864 26·6	2728 12·5	5323 27·5	8069 59·3	10106 46
15	33·6	36 53 0·7	888 31·2	2766 19·5	5369 37·0	8112 81 10·8	10129 45
16	51°34·1	41 53° 3·2	911 56°35·8	2805 62°26·5	5416 70°46·6	8154 81°22·2	10151 44
17	34·6	46 5·7	935 40·5	2844 33·6	5462 56·2	8196 33·6	10173 43
18	35·2	52 8·2	959 45·2	2883 40·8	5509 71 5·8	8238 45·1	10194 42
19	35·8	58 10·8	983 50·0	2922 47·9	5556 15·4	8280 56·6	10215 41
20	36·4	64 13·4	1008 54·7	2962 55·2	5602 25·1	8321 82 8·1	10236 40
21	51°37·0	71 53°16·0	1033 56°59·6	3001 63° 2·4	5649 71°34·9	8362 82°19·7	10256 39
22	37·7	77 18·7	1057 57 4·4	3041 9·7	5696 44·7	8403 31·2	10275 38
23	38·4	84 21·4	1082 9·3	3081 17·1	5743 54·5	8443 42·8	10294 37
24	39·2	92 24·1	1108 14·3	3121 24·5	5790 72 4·3	8484 54·5	10312 36
25	40·0	100 26·9	1134 19·3	3162 31·9	5837 14·2	8524 83 6·0	10330 35
26	51°40·8	108 53°29·7	1161 57°24·3	3202 63°39·4	5883 72°24·1	8564 83°17·7	10348 34
27	41·6	117 32·6	1188 29·3	3243 46·9	5930 34·1	8604 29·3	10365 33
28	42·5	125 35·4	1214 34·4	3284 54·5	5977 44·1	8643 41·0	10381 32
29	43·4	134 38·3	1241 39·6	3325 64 2·1	6024 54·1	8682 52·6	10397 31
30	44·4	144 41·3	1269 44·7	3367 9·7	6071 73 4·2	8721 84 4·3	10413 30
31	51°45·4	154 53°44·3	1297 57°49·9	3408 64°17·4	6118 73°14·3	8760 84°16·1	10428 29
32	46·4	163 47·3	1325 55·2	3450 25·2	6165 24·4	8799 27·8	10443 28
33	47·4	174 50·3	1353 58 0·5	3492 32·9	6212 34·6	8837 39·5	10457 27
34	48·5	185 53·4	1381 5·8	3534 40·7	6258 44·8	8874 51·3	10471 26
35	49·6	196 56·5	1410 11·1	3576 48·6	6306 55·1	8912 85 3·0	10484 25
36	51°50·7	207 53°59·7	1439 58°16·6	3618 64°56·5	6353 74° 5·4	8949 85°14·8	10496 24
37	51·9	219 54 2·9	1468 22·1	3661 65 4·5	6400 15·7	8986 26·6	10508 23
38	53·1	230 6·1	1497 27·6	3703 12·4	6447 26·0	9023 38·4	10519 22
39	54·3	243 9·4	1527 33·2	3746 20·4	6493 36·4	9059 50·2	10530 21
40	55·6	255 12·7	1558 38·7	3789 28·5	6540 46·8	9095 86 2·1	10541 20
41	51°56·9	268 54°16·0	1588 58°44·3	3832 65°36·6	6586 74°57·3	9131 86°13·9	10551 19
42	58·2	281 19·4	1618 49·9	3875 44·8	6633 75 7·8	9166 25·7	10561 18
43	59·6	295 22·8	1649 55·6	3919 53·0	6679 18·3	9201 37·6	10570 17
44	52 1·0	308 26·3	1681 59 1·4	3963 66 1·2	6726 28·9	9236 49·4	10579 16
45	2·4	323 29·8	1712 7·1	4006 9·5	6772 39·4	9270 87 1·3	10587 15
46	52° 3·9	337 54°33·3	1743 59°12·9	4050 66°17·8	6818 75°50·1	9304 87°13·2	10594 14
47	5·4	352 36·8	1775 18·8	4094 26·2	6864 76 0·7	9338 25·1	10601 13
48	6·9	367 40·4	1808 24·7	4138 34·6	6910 11·4	9372 37·0	10608 12
49	8·5	383 44·0	1840 30·6	4182 43·0	6957 22·1	9405 48·9	10614 11
50	10·1	398 47·7	1873 36·6	4227 51·5	7003 32·9	9437 88 0·8	10619 10
51	52°11·7	414 54°51·4	1906 59°42·6	4271 67° 0·1	7048 76°43·7	9470 88°12·7	10624 9
52	13·4	430 55·1	1939 48·7	4316 8·6	7094 54·5	9502 24·6	10629 8
53	15·0	447 58·9	1972 54·7	4360 17·2	7140 77 5·3	9533 36·5	10633 7
54	16·8	464 55 2·7	2006 60 0·9	4405 25·9	7186 16·2	9565 48·4	10637 6
55	18·5	481 6·5	2040 7·1	4450 34·6	7231 27·1	9596 89 0·4	10640 5
56	52°20·3	498 55°10·4	2074 60°13·3	4495 67°43·3	7276 77°38·0	9626 89°12·3	10642 4
57	22·2	516 14·3	2108 19·6	4541 52·1	7322 49·0	9656 24·2	10643 3
58	24·0	534 18·3	2143 25·9	4586 68 0·9	7367 78 0·0	9686 36·1	10645 2
59	25·9	552 22·3	2177 32·2	4632 9·8	7412 11·0	9715 48·1	10646 1
60	27·8	572 26·3	2212 38·6	4677 18·7	7457 22·0	9745 90 0·0	10646 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	51°45-0	0 52°42-7	565 55°40-7	2187 60°51-8	4620 68°29-2	7360 78°28-0	9610 60
1	45-0	0 44-7	584 44-7	2222 58-2	4665 38-1	7404 39-0	9638 59
2	45-1	1 46-6	603 48-8	2257 61 4-6	4710 47-0	7448 50-0	9666 58
3	45-1	1 48-7	622 52-9	2293 11-1	4755 56-0	7491 79 1-1	9693 57
4	45-3	3 50-7	642 57-1	2328 17-6	4800 69 5-0	7535 12-2	9720 56
5	45-4	4 52-8	662 56 1-3	2364 24-2	4845 14-1	7579 23-2	9746 55
6	51°45-6	6 52°54-9	682 56° 5-5	2400 61°30-8	4891 69°23-1	7622 79°34-3	9772 54
7	45-8	8 57-1	703 9-8	2436 37-4	4936 32-3	7665 45-5	9798 53
8	46-0	10 59-3	724 14-1	2473 44-2	4982 41-4	7708 56-6	9823 52
9	46-3	13 53 1-5	745 18-5	2509 50-9	5028 50-6	7751 80 7-8	9848 51
10	46-6	16 3-7	766 22-9	2546 57-6	5073 59-9	7794 19-0	9872 50
11	51°46-9	19 53° 6-0	788 56°27-3	2583 62° 4-4	5119 70° 9-2	7836 80°30-2	9896 49
12	47-3	23 8-4	810 31-8	2621 11-3	5165 18-5	7878 41-5	9920 48
13	47-7	26 10-7	832 36-3	2658 18-2	5210 27-8	7920 52-8	9943 47
14	48-1	31 13-1	855 40-8	2696 25-1	5256 37-2	7962 81 4-1	9966 46
15	48-6	36 15-5	878 45-4	2734 32-1	5302 46-7	8004 15-4	9988 45
16	51°49-1	41 53°18-0	901 56°50-0	2772 62°39-1	5348 70°56-1	8046 81°26-7	10010 44
17	49-6	46 20-5	924 54-6	2810 46-2	5394 71 5-7	8087 38-1	10031 43
18	50-2	51 23-0	948 59-3	2849 53-3	5440 15-2	8128 49-5	10052 42
19	50-7	57 25-6	972 57 4-0	2888 63 0-4	5487 24-8	8169 82 0-9	10072 41
20	51-4	63 28-2	996 8-8	2927 7-6	5533 34-4	8210 12-4	10092 40
21	51°52-0	70 53°30-8	1021 57°13-6	2966 63°14-9	5579 71°44-1	8250 82°23-8	10112 39
22	52-7	77 33-4	1046 18-5	3005 22-1	5625 53-8	8291 35-2	10131 38
23	53-4	83 36-1	1071 23-4	3045 29-4	5671 72 3-5	8331 46-7	10150 37
24	54-2	91 38-9	1096 28-2	3085 36-8	5717 13-3	8370 58-2	10168 36
25	55-0	99 41-6	1122 33-2	3125 44-2	5763 23-1	8410 83 9-7	10185 35
26	51°55-8	107 53°44-4	1148 57°38-2	3165 63°51-6	5810 72°33-0	8449 83°21-2	10202 34
27	56-6	115 47-3	1174 43-3	3205 59-1	5856 42-9	8488 32-8	10219 33
28	57-5	124 50-1	1201 48-3	3245 64 6-6	5902 52-8	8527 44-3	10236 32
29	58-4	133 53-0	1227 53-5	3286 14-2	5948 73 2-7	8566 55-9	10252 31
30	59-3	142 56-0	1254 58-6	3327 21-8	5995 12-7	8604 84 7-5	10267 30
31	52° 0-3	152 53°59-0	1282 58° 3-8	3368 64°29-4	6041 73°22-8	8642 84°19-1	10282 29
32	1-3	162 54 2-0	1309 9-0	3409 37-1	6087 32-8	8680 30-7	10296 28
33	2-4	172 5-0	1337 14-3	3450 44-9	6134 42-9	8717 42-4	10310 27
34	3-4	183 8-1	1365 19-6	3492 52-6	6180 53-1	8755 54-0	10323 26
35	4-5	193 11-2	1394 25-0	3533 65 0-4	6226 74 3-3	8791 85 5-7	10336 25
36	52° 5-7	205 54°14-3	1422 58°30-4	3575 65° 8-3	6272 74°13-5	8828 85°17-4	10348 24
37	6-8	216 17-5	1451 35-8	3617 16-2	6318 23-7	8864 29-0	10360 23
38	8-0	228 20-8	1481 41-3	3659 24-1	6364 34-0	8900 40-7	10372 22
39	9-3	240 24-0	1510 46-8	3701 32-1	6410 44-3	8936 52-5	10383 21
40	10-5	252 27-3	1540 52-3	3744 40-1	6456 54-6	8972 86 4-2	10393 20
41	52°11-8	265 54°30-6	1570 58°57-9	3786 65°48-2	6502 75° 5-0	9007 86°15-9	10403 19
42	13-2	278 34-0	1600 59 3-6	3829 56-3	6548 15-4	9042 27-6	10413 18
43	14-5	291 37-4	1630 9-2	3872 66 4-4	6593 25-8	9076 39-4	10422 17
44	15-9	305 40-8	1661 14-9	3915 12-6	6639 36-3	9110 51-1	10430 16
45	17-4	319 44-3	1692 20-7	3958 20-9	6685 46-8	9144 87 2-9	10438 15
46	52°18-8	333 54°47-8	1724 59°26-5	4001 66°29-1	6731 75°57-4	9178 87°14-7	10445 14
47	20-3	348 51-3	1755 32-3	4045 37-4	6776 76 7-9	9211 26-5	10452 13
48	21-8	363 54-9	1787 38-2	4088 45-8	6822 18-5	9244 38-3	10459 12
49	23-4	378 58-5	1819 44-1	4132 54-2	6867 29-2	9276 50-1	10465 11
50	25-0	394 55 2-2	1851 50-0	4176 67 2-6	6912 39-8	9308 88 1-9	10470 10
51	52°26-6	409 55° 5-9	1884 59°56-0	4220 67°11-1	6957 76°50-5	9339 88°13-6	10475 9
52	28-2	425 9-6	1916 60 2-1	4264 19-6	7003 77 1-3	9372 25-4	10479 8
53	29-9	442 13-3	1949 8-1	4308 28-2	7048 12-0	9403 37-3	10483 7
54	31-7	458 17-1	1983 14-2	4352 36-8	7092 22-8	9433 49-1	10486 6
55	33-4	475 21-0	2016 20-4	4396 45-4	7137 33-6	9464 89 0-9	10489 5
56	52°35-2	493 55°24-8	2050 60°26-6	4441 67°54-1	7182 77°44-4	9494 89°12-8	10491 4
57	37-0	510 28-7	2084 32-8	4485 68 2-8	7226 55-3	9523 24-5	10493 3
58	38-9	528 32-7	2118 39-1	4530 11-6	7271 78 6-2	9552 36-3	10495 2
59	40-8	546 36-7	2152 45-4	4575 20-4	7315 17-1	9581 48-2	10495 1
60	42-7	565 40-7	2187 51-8	4620 29-2	7360 28-0	9610 90 0-0	10496 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	52° 0-0	0 52°57-6	558 55°55-0	2162 61° 4-9	4563 68°39-7	7263 78°34-1	9477 60
1	0-0	0 59-5	577 59-1	2196 11-3	4607 48-6	7306 45-0	9504 59
2	0-1	1 53 1-5	596 56 3-1	2231 17-7	4652 57-4	7350 55-9	9531 58
3	0-1	1 3-5	615 7-2	2266 24-1	4696 69 6-3	7393 79 6-8	9558 57
4	0-3	3 5-6	634 11-4	2301 30-6	4741 15-3	7435 17-8	9584 56
5	0-4	4 7-7	654 15-6	2337 37-1	4786 24-3	7478 28-8	9610 55
6	52° 0-6	6 53° 9-8	674 56°19-8	2372 61°43-7	4830 69°33-3	7521 79°39-8	9636 54
7	0-8	8 11-9	694 24-1	2408 50-3	4875 42-3	7564 50-8	9661 53
8	1-0	10 14-1	715 28-4	2444 57-0	4920 51-4	7606 80 1-9	9686 52
9	1-3	13 16-3	736 32-7	2480 62 3-7	4965 70 0-6	7648 13-0	9711 51
10	1-6	16 18-6	757 37-1	2516 10-4	5010 9-8	7690 24-1	9735 50
11	52° 1-9	19 53°20-8	779 56°41-5	2553 62°17-2	5055 70°19-0	7732 80°35-2	9759 49
12	2-3	23 23-2	801 45-9	2590 24-0	5100 28-2	7774 46-4	9782 48
13	2-7	26 25-5	823 50-4	2627 30-9	5145 37-5	7815 57-6	9804 47
14	3-1	31 27-9	845 54-9	2664 37-8	5190 46-9	7856 81 8-8	9826 46
15	3-6	35 30-3	867 59-5	2701 44-7	5236 56-2	7897 20-0	9848 45
16	52° 4-1	40 53°32-8	890 57° 4-1	2739 62°51-7	5281 71° 5-6	7938 81°31-3	9870 44
17	4-6	45 35-2	914 8-7	2777 58-7	5327 15-1	7979 42-5	9891 43
18	5-2	51 37-8	938 13-4	2815 63 5-8	5372 24-6	8019 53-8	9911 42
19	5-8	56 40-3	961 18-1	2854 12-9	5418 34-1	8060 82 5-1	9931 41
20	6-4	63 42-9	985 22-9	2892 20-1	5463 43-6	8100 16-4	9951 40
21	52° 7-0	69 53°45-5	1009 57°27-7	2931 63°27-3	5509 71°53-2	8140 82°27-8	9970 39
22	7-7	76 48-2	1034 32-5	2969 34-5	5554 72 2-8	8180 39-1	9989 38
23	8-4	83 50-9	1059 37-4	3008 41-8	5600 12-5	8219 50-5	10007 37
24	9-2	90 53-6	1084 42-2	3047 49-1	5646 22-3	8258 83 1-9	10025 36
25	9-9	97 56-3	1109 47-2	3087 56-4	5691 32-0	8297 13-3	10043 35
26	52°10-7	106 53°59-1	1135 57°52-2	3127 64° 3-8	5736 72°41-8	8335 83°24-8	10060 34
27	11-6	114 54 2-0	1161 57-2	3167 11-2	5782 51-6	8374 36-2	10076 33
28	12-5	123 4-8	1187 58 2-2	3207 18-7	5827 73 1-4	8412 47-7	10092 32
29	13-4	131 7-7	1214 7-3	3247 26-2	5873 11-3	8450 59-1	10107 31
30	14-3	141 10-7	1240 12-5	3287 33-8	5919 21-2	8488 84 10-6	10122 30
31	52°15-3	150 54°13-6	1267 58°17-7	3327 64°41-4	5964 73°31-2	8525 84°22-2	10137 29
32	16-3	160 16-6	1294 22-9	3368 49-1	6010 41-2	8562 33-7	10151 28
33	17-3	170 19-7	1322 28-1	3409 56-7	6055 51-2	8599 45-2	10164 27
34	18-4	180 22-7	1350 33-4	3450 65 4-5	6101 74 1-3	8635 56-7	10178 26
35	19-5	191 25-8	1378 38-7	3491 12-2	6146 11-4	8672 85 8-3	10190 25
36	52°20-6	202 54°29-0	1406 58°44-1	3532 65°20-0	6192 74°21-5	8708 85°19-9	10202 24
37	21-8	214 32-2	1435 49-5	3574 27-9	6237 31-7	8744 31-5	10214 23
38	23-0	225 35-4	1464 55-0	3615 35-8	6282 41-9	8779 43-1	10226 22
39	24-2	237 38-6	1493 59 0-4	3657 43-7	6328 52-1	8814 54-7	10236 21
40	25-5	250 41-9	1522 6-0	3699 51-7	6373 75 2-4	8849 86 6-3	10246 20
41	52°26-8	262 54°45-2	1552 59°11-5	3741 65°59-7	6418 75°12-6	8884 86°17-9	10256 19
42	28-1	275 48-6	1582 17-1	3783 66 7-8	6463 23-0	8918 29-5	10265 18
43	29-5	288 51-9	1612 22-8	3825 15-9	6508 33-3	8952 41-2	10274 17
44	30-9	302 55-4	1642 28-5	3867 24-0	6554 43-7	8986 52-8	10283 16
45	32-3	315 58-8	1673 34-2	3910 32-2	6599 54-1	9019 87 4-5	10290 15
46	52°33-7	330 55° 2-3	1704 59°40-0	3953 66°40-4	6643 76° 4-6	9052 87°16-2	10297 14
47	35-2	344 5-9	1735 45-8	3996 48-7	6688 15-1	9084 27-8	10304 13
48	36-8	359 9-4	1766 51-6	4039 57-0	6733 25-6	9117 39-5	10310 12
49	38-3	374 13-0	1798 57-5	4082 67 5-3	6778 36-1	9149 51-2	10316 11
50	39-9	389 16-7	1830 60 3-4	4125 13-7	6823 46-7	9181 88 2-9	10321 10
51	52°41-5	405 55°20-3	1862 60° 9-4	4168 67°22-1	6867 76°57-3	9212 88°14-6	10326 9
52	43-2	421 24-0	1894 15-4	4211 30-6	6912 77 8-0	9242 26-3	10331 8
53	44-9	437 27-8	1927 21-4	4255 39-1	6956 18-6	9273 38-0	10335 7
54	46-6	453 31-6	1960 27-5	4299 47-6	7000 29-3	9303 49-7	10338 6
55	48-3	470 35-4	1993 33-7	4342 56-2	7044 40-1	9333 89 1-4	10341 5
56	52°50-1	487 55°39-3	2026 60°39-8	4386 68° 4-8	7088 77°50-8	9362 89°13-1	10343 4
57	51-9	505 43-1	2060 46-0	4430 13-5	7132 78 1-6	9391 24-8	10345 3
58	53-8	522 47-1	2094 52-3	4474 22-2	7176 12-4	9420 36-5	10346 2
59	55-7	540 51-0	2128 58-5	4519 30-9	7219 23-2	9448 48-2	10346 1
60	57-6	558 55-0	2162 61 4-9	4563 39-7	7263 34-1	9477 90 0-0	10347 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	52°15.0	0	53°12.4	552	56° 9.4	2136	61°18.0	4506	68°50.2	7167	78°40.1	9344	60
1	15.0	0	14.4	570	13.4	2170	24.3	4550	59.0	7209	50.9	9372	59
2	15.1	1	16.4	589	17.5	2205	30.7	4594	69 7.8	7252	79 1.7	9398	58
3	15.1	1	18.4	608	21.6	2239	37.1	4638	16.6	7295	12.6	9424	57
4	15.3	2	20.4	627	25.7	2274	43.6	4682	25.5	7337	23.4	9450	56
5	15.4	4	22.5	647	29.9	2309	50.1	4726	34.4	7379	34.3	9476	55
6	52°15.6	6	53°24.6	667	56°34.1	2344	61°56.6	4770	69°43.4	7421	79°45.3	9501	54
7	15.8	8	26.7	687	38.3	2379	62 3.2	4814	52.4	7463	56.2	9526	53
8	16.0	10	28.9	707	42.6	2415	9.8	4858	70 1.4	7504	80 7.2	9550	52
9	16.3	12	31.1	728	46.9	2451	16.5	4903	10.5	7546	18.2	9574	51
10	16.6	16	33.4	749	51.3	2487	23.2	4947	19.6	7587	29.2	9598	50
11	52°16.9	19	53°35.6	770	56°55.7	2523	62°29.9	4992	70°28.8	7629	80°40.2	9622	49
12	17.3	22	38.0	792	57 0.1	2559	36.7	5036	37.9	7670	51.3	9644	48
13	17.7	26	40.3	813	4.6	2596	43.5	5081	47.2	7710	81 2.4	9666	47
14	18.1	30	42.7	835	9.1	2633	50.4	5125	56.5	7751	13.5	9688	46
15	18.6	34	45.1	858	13.6	2670	57.3	5170	71 5.8	7791	24.6	9709	45
16	52°19.1	40	53°47.5	880	57°18.2	2707	63° 4.2	5215	71°15.1	7832	81°35.7	9730	44
17	19.6	45	50.0	903	22.8	2744	11.2	5259	24.5	7872	46.9	9751	43
18	20.2	50	52.5	926	27.5	2782	18.2	5304	33.9	7912	58.1	9771	42
19	20.7	56	55.1	950	32.2	2820	25.3	5349	43.3	7951	82 9.3	9791	41
20	21.3	62	57.6	974	36.9	2858	32.4	5394	52.8	7991	20.5	9810	40
21	52°22.0	68	54° 0.3	998	57°41.7	2896	63°39.6	5439	72° 2.4	8030	82°31.8	9829	39
22	22.7	75	2.9	1022	46.5	2934	46.8	5483	11.9	8069	43.1	9848	38
23	23.4	82	5.6	1046	51.3	2973	54.0	5528	21.5	8107	54.3	9866	37
24	24.1	89	8.3	1071	56.2	3011	64 1.3	5573	31.2	8146	83 5.6	9883	36
25	24.9	96	11.1	1096	58 1.1	3050	8.6	5618	40.8	8184	16.9	9900	35
26	52°25.7	105	54°13.8	1122	58° 6.1	3089	64°15.9	5663	72°50.5	8222	83°28.3	9917	34
27	26.6	113	16.7	1147	11.1	3129	23.3	5708	73 0.3	8260	39.6	9933	33
28	27.4	121	19.5	1173	16.1	3168	30.8	5753	10.1	8298	51.0	9949	32
29	28.3	130	22.4	1199	21.2	3208	38.3	5798	19.9	8335	84 2.4	9964	31
30	29.3	139	25.3	1226	26.3	3247	45.8	5843	29.7	8372	13.7	9979	30
31	52°30.3	148	54°28.3	1253	58°31.5	3287	64°53.3	5888	73°39.6	8409	84°25.1	9993	29
32	31.3	158	31.3	1280	36.6	3327	65 0.9	5933	49.5	8445	36.6	10007	28
33	32.3	168	34.3	1307	41.9	3368	8.6	5977	59.5	8482	48.0	10020	27
34	33.4	178	37.4	1334	47.1	3408	16.3	6022	74 9.5	8518	59.4	10033	26
35	34.5	189	40.5	1362	52.5	3449	24.0	6067	19.5	8553	85 10.9	10046	25
36	52°35.6	200	54°43.6	1390	58°57.8	3489	65°31.7	6112	74°29.5	8589	85°22.4	10058	24
37	36.7	211	46.8	1418	59 3.2	3530	39.6	6156	39.6	8624	33.9	10069	23
38	37.9	223	50.0	1447	8.6	3571	47.4	6201	49.7	8659	45.3	10080	22
39	39.2	235	53.2	1476	14.1	3612	55.3	6246	59.9	8693	56.8	10091	21
40	40.4	247	56.5	1505	19.6	3654	66 3.2	6290	75 10.0	8728	86 8.4	10101	20
41	52°41.7	259	54°59.8	1534	59°25.1	3695	66°11.2	6335	75°20.3	8762	86°19.9	10110	19
42	43.0	272	55 3.1	1563	30.7	3737	19.2	6380	30.5	8795	31.4	10119	18
43	44.4	285	6.5	1593	36.2	3778	27.2	6424	40.8	8828	43.0	10128	17
44	45.8	298	9.9	1623	42.0	3820	35.3	6468	51.1	8861	54.5	10136	16
45	47.2	312	13.4	1654	47.7	3862	43.4	6513	76 1.4	8894	87 6.1	10144	15
46	52°48.7	326	55°16.8	1684	59°53.4	3904	66°51.6	6557	76°11.8	8927	87°17.6	10151	14
47	50.2	340	20.4	1715	59.2	3947	59.8	6601	22.2	8959	29.2	10158	13
48	51.7	355	23.9	1746	60 5.0	3989	67 8.1	6645	32.6	8991	40.8	10164	12
49	53.2	369	27.5	1777	10.9	4031	16.4	6689	43.1	9022	52.4	10170	11
50	54.8	385	31.1	1809	16.8	4074	24.7	6733	53.6	9053	88 4.0	10175	10
51	52°56.4	400	55°34.8	1840	60°22.7	4117	67°33.1	6777	77° 4.1	9084	88°15.5	10180	9
52	58.1	416	38.5	1872	28.7	4160	41.5	6821	14.7	9114	27.1	10184	8
53	59.7	432	42.2	1905	34.7	4203	49.9	6864	25.2	9144	38.7	10188	7
54	53 1.5	448	46.0	1937	40.8	4246	58.4	6908	35.8	9174	50.3	10191	6
55	3.2	465	49.8	1970	46.9	4289	68 6.9	6951	46.5	9203	89 1.9	10193	5
56	53° 5.0	482	55°53.6	2003	60°53.0	4332	68°15.5	6995	77°57.2	9232	89°13.5	10195	4
57	6.8	499	57.5	2036	59.2	4376	24.1	7038	78 7.9	9261	25.1	10197	3
58	8.6	516	56 1.4	2069	61 5.4	4419	32.8	7081	18.6	9289	36.7	10198	2
59	10.5	534	5.4	2103	11.7	4463	41.5	7124	29.3	9317	48.4	10199	1
60	12.4	552	9.4	2136	18.0	4506	50.2	7167	40.1	9344	90 0.0	10199	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	52°30·0	0	53°27·3	546	56°23·7	2111	61°31·0	4450	69° 0·6	7071	78°46·0	9213	60
1	30·0	0	29·2	564	27·7	2145	37·3	4493	9·3	7114	56·7	9240	59
2	30·1	1	31·2	583	31·8	2178	43·6	4537	18·1	7156	79 7·5	9266	58
3	30·1	1	33·2	601	35·9	2212	50·0	4580	26·9	7197	18·2	9292	57
4	30·3	2	35·2	620	40·0	2247	56·5	4623	35·7	7239	29·0	9318	56
5	30·4	4	37·3	639	44·2	2282	62 2·9	4666	44·5	7280	39·8	9343	55
6	52°30·6	6	53°39·4	659	56°48·4	2316	62° 9·4	4710	69°53·4	7322	79°50·7	9368	54
7	30·8	7	41·6	679	52·6	2351	16·0	4754	70 2·4	7363	80 1·5	9392	53
8	31·0	10	43·7	699	56·8	2386	22·6	4797	11·3	7404	12·4	9416	52
9	31·3	12	45·9	719	57 1·1	2422	29·2	4841	20·3	7445	23·3	9439	51
10	31·6	15	48·2	740	5·4	2457	35·8	4885	29·4	7485	34·2	9462	50
11	52°31·9	18	53°50·4	761	57° 9·8	2493	62°42·6	4929	70°38·5	7526	80°45·2	9485	49
12	32·3	22	52·7	782	14·2	2529	49·3	4973	47·6	7566	56·1	9508	48
13	32·7	26	55·1	804	18·7	2565	56·1	5016	56·8	7606	81 7·1	9530	47
14	33·1	30	57·5	826	23·2	2601	63 2·9	5060	71 6·0	7646	18·1	9552	46
15	33·5	34	59·9	848	27·7	2637	9·8	5104	15·2	7686	29·2	9573	45
16	52°34·0	39	54° 2·3	870	57°32·3	2674	63°16·7	5148	71°24·5	7725	81°40·2	9593	44
17	34·6	44	4·8	893	36·9	2712	23·7	5192	33·8	7765	51·3	9613	43
18	35·1	49	7·3	916	41·5	2749	30·7	5236	43·2	7805	82 2·4	9632	42
19	35·7	55	9·8	939	46·2	2786	37·7	5281	52·5	7844	13·5	9652	41
20	36·3	61	12·4	962	50·9	2823	44·8	5325	72 2·0	7882	24·6	9671	40
21	52°37·0	67	54°15·0	986	57°55·6	2861	63°51·9	5369	72°11·4	7921	82°35·8	9690	39
22	37·7	74	17·6	1010	58 0·4	2899	59·0	5413	20·9	7959	46·9	9708	38
23	38·4	81	20·3	1034	5·3	2937	64 6·2	5457	30·4	7997	58·1	9726	37
24	39·1	88	23·0	1059	10·1	2975	13·5	5502	40·0	8035	83 9·3	9743	36
25	39·9	96	25·8	1083	15·0	3013	20·7	5546	49·6	8073	20·5	9759	35
26	52°40·7	103	54°28·5	1108	58°20·0	3052	64°28·0	5590	72°59·2	8110	83°31·8	9776	34
27	41·5	111	31·3	1134	25·0	3091	35·4	5635	73 8·9	8147	43·0	9792	33
28	42·4	120	34·2	1160	30·0	3130	42·8	5679	18·6	8184	54·3	9807	32
29	43·3	128	37·1	1186	35·0	3169	50·2	5723	28·3	8221	84 5·5	9822	31
30	44·2	137	40·0	1212	40·1	3208	57·7	5767	38·1	8257	16·8	9836	30
31	52°45·2	147	54°42·9	1238	58°45·2	3248	65° 5·2	5812	73°47·9	8293	84°28·1	9850	29
32	46·2	157	45·9	1265	50·4	3287	12·8	5856	57·8	8329	39·5	9864	28
33	47·2	167	48·9	1292	55·6	3327	20·4	5900	74 7·7	8365	50·8	9877	27
34	48·3	177	52·0	1319	59 0·9	3367	28·0	5944	17·6	8401	85 2·1	9890	26
35	49·4	187	55·1	1346	6·2	3407	35·7	5988	27·5	8436	13·5	9902	25
36	52°50·5	198	54°58·2	1374	59°11·5	3447	65°43·4	6032	74°37·5	8470	85°24·9	9914	24
37	51·7	209	55 1·4	1402	16·8	3487	51·2	6076	47·5	8505	36·2	9925	23
38	52·9	220	4·5	1430	22·2	3528	59·0	6120	57·5	8539	47·6	9936	22
39	54·1	232	7·8	1458	27·7	3568	66 6·8	6164	75 7·6	8573	59·0	9947	21
40	55·4	244	11·0	1487	33·2	3609	14·7	6208	17·6	8607	86 10·4	9957	20
41	52°56·6	256	55°14·3	1516	59°38·7	3650	66°22·6	6252	75°27·8	8640	86°21·9	9966	19
42	58·0	269	17·7	1545	44·2	3691	30·6	6296	38·0	8673	33·3	9975	18
43	59·3	282	21·0	1574	49·8	3731	38·6	6340	48·2	8706	44·8	9983	17
44	53 0·7	295	24·4	1604	55·5	3773	46·6	6383	58·4	8738	56·2	9991	16
45	2·1	308	27·9	1635	60 1·1	3815	54·7	6427	76 8·7	8771	87 7·6	9999	15
46	53° 3·6	322	55°31·3	1665	60° 6·9	3856	67° 2·8	6471	76°19·0	8803	87°19·1	10006	14
47	5·1	336	34·8	1695	12·6	3898	10·9	6514	29·3	8834	30·5	10013	13
48	6·6	350	38·4	1725	18·4	3940	19·1	6558	39·6	8865	42·0	10019	12
49	8·1	365	42·0	1756	24·2	3982	27·4	6601	50·0	8896	53·5	10024	11
50	9·7	380	45·6	1787	30·1	4024	35·7	6644	77 0·4	8927	88 5·0	10029	10
51	53°11·3	395	55°49·2	1819	60°36·0	4066	67°44·0	6688	77°10·8	8957	88°16·5	10034	9
52	13·0	411	52·9	1851	42·0	4108	52·3	6731	21·3	8987	28·0	10038	8
53	14·6	426	56·6	1882	48·0	4151	68 0·7	6774	31·8	9017	39·5	10042	7
54	16·3	443	56 0·4	1914	54·0	4193	9·2	6817	42·3	9046	51·0	10045	6
55	18·1	459	4·2	1946	61 0·1	4235	17·6	6859	52·9	9075	89 2·5	10047	5
56	53°19·9	476	56° 8·0	1979	61° 6·2	4278	68°26·2	6902	78° 3·5	9103	89°14·0	10049	4
57	21·7	493	11·9	2012	12·3	4321	34·7	6944	14·1	9131	25·5	10051	3
58	23·5	510	15·8	2045	18·5	4364	43·3	6987	24·7	9159	37·0	10052	2
59	25·4	528	19·7	2078	24·7	4407	51·9	7029	35·4	9186	48·5	10053	1
60	27·3	546	23·7	2111	31·0	4450	69 0·6	7071	46·0	9213	90 0·0	10053	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	52°45:0	0	53°42:1	540	56°38:0	2086	61°44:0	4394	69°11:0	6977	78°52:0	9083	60
1	45:0	0	44:1	558	42:0	2119	50:3	4437	19:6	7018	79 2:6	9110	59
2	45:1	1	46:0	576	46:0	2153	56:6	4479	28:2	7059	13:2	9136	58
3	45:1	1	48:0	594	50:1	2186	62 2:9	4522	37:0	7100	23:9	9161	57
4	45:3	2	50:1	613	54:2	2220	9:3	4565	45:8	7141	34:6	9186	56
5	45:4	4	52:1	632	58:3	2254	15:8	4607	54:6	7182	45:3	9210	55
6	52°45:6	6	53°54:2	652	57° 2:5	2289	62°22:2	4650	70° 3:4	7223	79°56:0	9235	54
7	45:8	7	56:4	671	6:7	2323	28:8	4693	12:3	7263	80 6:8	9259	53
8	46:0	10	58:5	691	11:0	2358	35:3	4736	21:2	7304	17:6	9282	52
9	46:3	12	54 0:7	711	15:3	2393	41:9	4779	30:2	7344	28:4	9305	51
10	46:6	15	3:0	732	19:6	2428	48:5	4823	39:2	7384	39:2	9328	50
11	52°46:9	18	54° 5:2	752	57°24:0	2463	62°55:2	4866	70°48:2	7424	80°50:1	9351	49
12	47:3	22	7:5	773	28:4	2498	63 1:9	4909	57:3	7464	81 0:9	9373	48
13	47:7	26	9:9	795	32:8	2534	8:7	4953	71 6:4	7503	11:8	9394	47
14	48:1	30	12:2	816	37:3	2570	15:5	4996	15:5	7542	22:8	9415	46
15	48:5	34	14:6	838	41:8	2606	22:3	5039	24:7	7582	33:7	9436	45
16	52°49:0	39	54°17:1	860	57°46:3	2642	63°29:2	5083	71°33:9	7621	81°44:7	9456	44
17	49:6	44	19:5	882	50:9	2679	36:1	5126	43:1	7659	55:6	9476	43
18	50:1	49	22:0	905	55:5	2715	43:1	5169	52:4	7698	82 6:6	9496	42
19	50:7	54	24:6	928	58 0:2	2752	50:0	5213	72 1:7	7736	17:6	9515	41
20	51:3	61	27:1	951	4:9	2789	57:1	5257	11:1	7774	28:7	9533	40
21	52°52:0	66	54°29:7	975	58° 9:6	2826	64° 4:1	5300	72°20:4	7812	82°39:7	9551	39
22	52:6	73	32:4	998	14:4	2864	11:3	5344	29:9	7850	50:8	9569	38
23	53:3	80	35:0	1022	19:2	2901	18:4	5387	39:3	7887	83 1:9	9587	37
24	54:1	87	37:7	1047	24:0	2939	25:6	5431	48:8	7925	13:0	9603	36
25	54:9	95	40:5	1071	28:9	2977	32:8	5474	58:3	7962	24:1	9620	35
26	52°55:7	102	54°43:2	1096	58°33:8	3015	64°40:1	5518	73° 7:9	7999	83°35:3	9636	34
27	56:5	110	46:0	1121	38:8	3053	47:4	5562	17:5	8035	46:4	9652	33
28	57:4	118	48:8	1146	43:8	3092	54:8	5605	27:1	8072	57:5	9667	32
29	58:3	127	51:7	1172	48:8	3130	65 2:2	5649	36:7	8108	84 8:7	9681	31
30	59:2	136	54:6	1198	53:9	3169	9:6	5692	46:5	8144	19:9	9695	30
31	53° 0:2	145	54°57:6	1224	58°59:0	3208	65°17:1	5736	73°56:2	8179	84°31:1	9709	29
32	1:2	155	55 0:6	1250	59 4:2	3247	24:6	5780	74 6:0	8214	42:3	9723	28
33	2:2	164	3:6	1277	9:4	3286	32:1	5823	15:8	8249	53:6	9736	27
34	3:3	175	6:6	1304	14:6	3325	39:7	5867	25:6	8284	85 4:8	9748	26
35	4:4	185	9:7	1331	19:8	3365	47:4	5910	35:5	8319	16:1	9760	25
36	53° 5:5	196	55°12:8	1358	59°25:1	3404	65°55:0	5954	74°45:4	8353	85°27:3	9772	24
37	6:6	207	15:9	1385	30:5	3444	66 2:7	5997	55:3	8387	38:6	9783	23
38	7:8	218	19:1	1413	35:8	3484	10:5	6040	75 5:3	8421	49:9	9794	22
39	9:1	229	22:3	1441	41:3	3524	18:3	6084	15:3	8454	86 1:2	9804	21
40	10:3	241	25:6	1470	46:7	3564	26:1	6127	25:3	8487	12:5	9813	20
41	53°11:6	253	55°28:9	1498	59°52:2	3605	66°34:0	6170	75°35:4	8520	86°23:8	9822	19
42	12:9	266	32:2	1527	57:7	3645	41:9	6213	45:5	8553	35:1	9831	18
43	14:3	279	35:5	1556	60 3:3	3686	49:8	6256	55:6	8585	46:5	9840	17
44	15:7	292	38:9	1585	8:9	3727	57:8	6300	76 5:7	8617	57:8	9848	16
45	17:1	305	42:4	1615	14:6	3768	67 5:9	6343	15:9	8649	87 9:2	9855	15
46	53°18:5	319	55°45:9	1645	60°20:3	3809	67°13:9	6385	76°26:1	8680	87°20:5	9862	14
47	20:0	332	49:3	1675	26:0	3850	22:0	6428	36:3	8711	31:9	9868	13
48	21:5	347	52:9	1705	31:8	3891	30:2	6471	46:6	8742	43:2	9874	12
49	23:0	361	56:4	1736	37:6	3932	38:4	6513	56:9	8773	54:6	9880	11
50	24:6	376	56 0:0	1766	43:4	3974	46:7	6556	77 7:3	8803	88 6:0	9885	10
51	53°26:2	391	56° 3:7	1797	60°49:3	4015	67°54:9	6599	77°17:6	8832	88°17:4	9889	9
52	27:9	406	7:3	1828	55:2	4057	68 3:2	6641	27:9	8861	28:8	9893	8
53	29:5	422	11:0	1860	61 1:2	4099	11:5	6684	38:3	8890	40:2	9897	7
54	31:2	438	14:8	1892	7:2	4141	19:9	6726	48:8	8919	51:6	9900	6
55	33:0	454	18:6	1923	13:2	4183	28:3	6768	59:2	8947	89 3:0	9903	5
56	53°34:7	471	56°22:4	1955	61°19:3	4225	68°36:8	6810	78° 9:7	8975	89°14:4	9905	4
57	36:5	487	26:2	1988	25:4	4267	45:3	6852	20:2	9003	25:8	9907	3
58	38:4	505	30:1	2020	31:6	4309	53:8	6893	30:8	9030	37:2	9908	2
59	40:2	522	34:0	2053	37:8	4352	69 2:4	6935	41:4	9057	48:6	9908	1
60	42:1	540	38:0	2086	44:0	4394	11:0	6977	52:0	9083	90 0:0	9909	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	53° 0·0	0	53°57·0	533	56°52·3	2061	61°57·0	4338	69°21·3	6882	78°57·8	8954	60
1	0·0	0	58·9	551	56·3	2094	62 3·2	4380	29·9	6923	79 8·4	8980	59
2	0·1	1	54 0·9	569	57 0·3	2127	9·5	4422	38·5	6964	18·9	9006	58
3	0·1	1	2·9	587	4·3	2160	15·8	4464	47·2	7004	29·5	9031	57
4	0·3	2	4·9	606	8·4	2194	22·2	4507	55·9	7045	40·1	9055	56
5	0·4	4	7·0	625	12·6	2227	28·6	4549	70 4·6	7085	50·7	9080	55
6	53° 0·6	5	54° 9·1	644	57°16·7	2261	62°35·0	4591	70°13·4	7125	80° 1·4	9104	54
7	0·8	7	11·2	664	20·9	2295	41·5	4633	22·2	7165	12·1	9127	53
8	1·0	10	13·3	683	25·2	2329	48·0	4676	31·1	7204	22·7	9150	52
9	1·3	12	15·5	703	29·4	2364	54·6	4718	40·0	7244	33·5	9173	51
10	1·6	15	17·8	723	33·8	2398	63 1·2	4761	48·9	7283	44·2	9195	50
11	53° 1·9	18	54°20·0	744	57°38·1	2433	63° 7·8	4803	70°57·8	7323	80°55·0	9217	49
12	2·3	22	22·3	764	42·5	2468	14·5	4846	71 6·8	7362	81 5·7	9238	48
13	2·7	25	24·6	785	46·9	2503	21·2	4889	15·9	7401	16·5	9260	47
14	3·1	29	27·0	806	51·3	2539	28·0	4932	24·9	7439	27·4	9281	46
15	3·5	33	29·4	828	55·8	2574	34·8	4974	34·0	7478	38·2	9301	45
16	53° 4·0	38	54°31·8	850	58° 0·4	2610	63°41·6	5017	71°43·2	7516	81°49·1	9321	44
17	4·5	43	34·3	872	4·9	2646	48·5	5060	52·4	7554	59·9	9340	43
18	5·1	48	36·8	895	9·5	2682	55·4	5103	72 1·6	7592	82 10·8	9359	42
19	5·7	54	39·3	917	14·1	2718	64 2·3	5146	10·8	7630	21·8	9378	41
20	6·3	60	41·8	940	18·8	2755	9·3	5188	20·1	7667	32·7	9396	40
21	53° 6·9	66	54°44·4	963	58°23·6	2792	64°16·4	5231	72°29·4	7705	82°43·6	9414	39
22	7·6	72	47·1	987	28·3	2828	23·4	5274	38·8	7742	54·6	9432	38
23	8·3	79	49·7	1011	33·1	2865	30·6	5317	48·2	7779	83 5·6	9449	37
24	9·1	86	52·4	1035	37·9	2903	37·7	5360	57·6	7815	16·6	9465	36
25	9·8	93	55·1	1059	42·8	2941	44·9	5403	73 7·0	7852	27·6	9481	35
26	53°10·6	101	54°57·9	1083	58°47·7	2978	64°52·2	5446	73°16·5	7888	83°38·7	9497	34
27	11·5	109	55 0·7	1108	52·6	3015	59·4	5489	26·1	7924	49·7	9513	33
28	12·4	117	3·5	1133	57·6	3053	65 6·7	5532	35·6	7959	84 0·8	9528	32
29	13·3	125	6·4	1158	59 2·6	3091	14·0	5575	45·2	7995	11·9	9543	31
30	14·2	134	9·3	1184	7·7	3129	21·4	5618	54·8	8031	23·0	9557	30
31	53°15·1	143	55°12·2	1209	59°12·8	3168	65°28·9	5661	74° 4·5	8066	84°34·1	9570	29
32	16·1	153	15·2	1235	17·9	3206	36·3	5704	14·2	8100	45·2	9583	28
33	17·2	162	18·2	1262	23·0	3245	43·8	5747	23·9	8135	56·3	9596	27
34	18·2	173	21·2	1288	28·2	3284	51·4	5789	33·7	8169	85 7·5	9608	26
35	19·3	183	24·3	1315	33·5	3323	59·0	5832	43·4	8203	18·6	9620	25
36	53°20·4	193	55°27·4	1342	59°38·7	3362	66° 6·6	5875	74°53·3	8237	85°29·8	9631	24
37	21·6	204	30·5	1369	44·1	3401	14·3	5918	75 3·1	8270	40·9	9642	23
38	22·8	215	33·7	1396	49·4	3440	22·0	5960	13·0	8303	52·1	9652	22
39	24·0	227	36·9	1424	54·8	3480	29·7	6003	22·9	8336	86 3·3	9662	21
40	25·2	238	40·1	1452	60 0·2	3520	37·5	6046	32·9	8369	14·5	9672	20
41	53°26·5	250	55°43·4	1481	60° 5·7	3560	66°45·3	6089	75°42·8	8401	86°25·8	9681	19
42	27·8	263	46·7	1509	11·2	3600	53·2	6131	52·8	8433	37·0	9689	18
43	29·2	275	50·0	1537	16·8	3640	67 1·1	6174	76 2·9	8464	48·2	9697	17
44	30·6	288	53·4	1566	22·4	3680	9·0	6216	12·9	8496	59·5	9705	16
45	32·0	302	56·9	1596	28·0	3720	17·0	6258	23·0	8527	87 10·7	9712	15
46	53°33·4	315	56° 0·3	1625	60°33·6	3761	67°25·0	6300	76°33·2	8558	87°22·0	9719	14
47	34·9	329	3·8	1655	39·3	3802	33·1	6343	43·3	8588	33·2	9726	13
48	36·4	343	7·3	1685	45·1	3842	41·2	6385	53·5	8618	44·5	9732	12
49	37·9	357	10·8	1715	50·9	3883	49·3	6427	77 3·7	8648	55·8	9737	11
50	39·5	372	14·4	1745	56·7	3924	57·5	6469	14·0	8677	88 7·0	9742	10
51	53°41·1	387	56°18·1	1776	61° 2·5	3965	68° 5·7	6511	77°24·2	8707	88°18·3	9746	9
52	42·7	402	21·7	1807	8·4	4006	13·9	6552	34·5	8736	29·6	9750	8
53	44·4	417	25·4	1838	14·3	4047	22·2	6594	44·8	8765	40·9	9754	7
54	46·1	433	29·2	1869	20·3	4088	30·5	6636	55·2	8793	52·2	9757	6
55	47·8	449	32·9	1900	26·3	4130	38·9	6677	78 5·6	8820	89 3·5	9759	5
56	53°49·6	465	56°36·7	1932	61°32·4	4171	68°47·3	6718	78°16·0	8848	89°14·8	9761	4
57	51·4	482	40·6	1964	38·5	4213	55·7	6760	26·4	8875	26·1	9763	3
58	53·2	499	44·4	1996	44·6	4255	69 4·2	6801	36·8	8901	37·4	9764	2
59	55·1	516	48·4	2028	50·8	4296	12·7	6841	47·3	8928	48·7	9765	1
60	57·0	533	52·3	2061	57·0	4338	21·3	6882	57·8	8954	90 0·0	9765	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	53°15·0	0	54°11·8	527	57° 6·6	2036	62° 9·9	4283	69°31·6	6789	79° 3·7	8827	60
1	15·0	0	13·8	545	10·5	2068	16·1	4324	40·1	6829	14·1	8852	59
2	15·1	1	15·7	562	14·5	2101	22·4	4366	48·7	6869	24·6	8877	58
3	15·1	1	17·7	580	18·6	2134	28·6	4407	57·3	6909	35·1	8901	57
4	15·2	2	19·7	599	22·7	2167	35·0	4449	70 5·9	6949	45·6	8926	56
5	15·4	4	21·8	617	26·8	2200	41·3	4490	14·6	6988	56·1	8949	55
6	53°15·6	5	54°23·9	636	57°30·9	2233	62°47·8	4532	70°23·3	7028	80° 6·7	8973	54
7	15·8	7	26·0	656	35·1	2267	54·2	4574	32·0	7067	17·3	8996	53
8	16·0	9	28·1	675	39·3	2301	63 0·7	4616	40·8	7106	27·9	9019	52
9	16·3	12	30·3	695	43·6	2335	7·2	4657	49·7	7145	38·5	9041	51
10	16·6	15	32·6	715	47·9	2369	13·8	4699	58·5	7184	49·1	9063	50
11	53°16·9	18	54°34·8	735	57°52·2	2403	63°20·4	4741	71° 7·4	7222	80°59·8	9085	49
12	17·3	21	37·1	755	56·6	2438	27·0	4783	16·4	7261	81 10·5	9106	48
13	17·7	25	39·4	776	58 1·0	2473	33·7	4825	25·3	7299	21·2	9127	47
14	18·1	28	41·8	797	5·4	2508	40·4	4868	34·3	7337	31·9	9147	46
15	18·5	33	44·2	819	9·9	2543	47·2	4910	43·4	7375	42·7	9167	45
16	53°19·0	38	54°46·6	840	58°14·4	2578	63°54·0	4952	71°52·5	7413	81°53·4	9187	44
17	19·5	42	49·0	862	18·9	2613	64 0·8	4994	72 1·6	7450	82 4·2	9206	43
18	20·1	48	51·5	884	23·5	2649	7·7	5036	10·7	7487	15·0	9225	42
19	20·7	53	54·0	906	28·1	2685	14·6	5079	19·9	7524	25·8	9243	41
20	21·3	59	56·6	929	32·8	2721	21·6	5121	29·1	7561	36·7	9261	40
21	53°21·9	65	54°59·2	952	58°37·5	2757	64°28·6	5163	72°38·4	7598	82°47·6	9278	39
22	22·6	72	55 1·8	975	42·2	2794	35·6	5205	47·6	7635	58·4	9295	38
23	23·3	78	4·4	998	47·0	2830	42·7	5248	57·0	7671	83 9·3	9312	37
24	24·0	85	7·1	1022	51·8	2867	49·8	5290	73 6·3	7707	20·2	9329	36
25	24·8	92	9·8	1046	56·6	2904	56·9	5332	15·7	7743	31·2	9345	35
26	53°25·6	100	55°12·6	1070	59° 1·5	2941	65° 4·1	5375	73°25·1	7778	83°42·1	9360	34
27	26·4	108	15·4	1095	6·4	2978	11·3	5417	34·6	7814	53·0	9375	33
28	27·3	116	18·2	1119	11·4	3015	18·6	5459	44·1	7849	84 4·0	9390	32
29	28·2	124	21·0	1144	16·4	3053	25·9	5502	53·6	7884	15·0	9404	31
30	29·1	133	23·9	1169	21·4	3091	33·3	5544	74 3·1	7918	26·0	9418	30
31	53°30·1	142	55°26·8	1195	59°26·5	3128	65°40·6	5586	74°12·7	7953	84°37·0	9431	29
32	31·1	151	29·8	1220	31·6	3166	48·1	5629	22·3	7987	48·0	9444	28
33	32·1	161	32·8	1246	36·7	3205	55·5	5671	32·0	8021	59·1	9456	27
34	33·2	171	35·8	1273	41·9	3243	66 3·0	5713	41·7	8055	85 10·1	9468	26
35	34·3	181	38·9	1299	47·1	3282	10·6	5755	51·4	8088	21·1	9480	25
36	53°35·4	191	55°41·9	1326	59°52·3	3320	66°18·1	5797	75° 1·1	8121	85°32·2	9491	24
37	36·5	202	45·1	1353	57·6	3359	25·8	5839	10·9	8154	43·3	9502	23
38	37·7	213	48·2	1380	60 3·0	3398	33·4	5882	20·7	8187	54·4	9512	22
39	38·9	224	51·4	1407	8·3	3437	41·1	5924	30·5	8219	86 5·5	9522	21
40	40·2	236	54·7	1435	13·7	3476	48·8	5965	40·4	8251	16·6	9531	20
41	53°41·5	248	55°57·9	1463	60°19·2	3515	66°56·6	6007	75°50·3	8283	86°27·7	9540	19
42	42·8	260	56 1·2	1491	24·7	3554	67 4·4	6049	76 0·2	8314	38·8	9549	18
43	44·1	272	4·6	1519	30·2	3594	12·3	6091	10·2	8345	50·0	9557	17
44	45·5	285	7·9	1548	35·7	3634	20·2	6133	20·2	8376	87 1·1	9564	16
45	46·9	298	11·3	1577	41·3	3673	28·1	6174	30·2	8407	12·2	9571	15
46	53°48·3	311	56°14·8	1606	60°47·0	3713	67°36·1	6216	76°40·2	8437	87°23·4	9578	14
47	49·8	325	18·2	1635	52·6	3753	44·1	6258	50·3	8467	34·6	9584	13
48	51·3	339	21·7	1664	58·4	3794	52·1	6299	77 0·4	8496	45·7	9590	12
49	52·8	353	25·3	1694	61 4·1	3834	68 0·2	6341	10·5	8526	56·9	9595	11
50	54·4	368	28·9	1724	9·9	3874	8·3	6382	20·7	8555	88 8·0	9600	10
51	53°56·0	382	56°32·5	1754	61°15·7	3914	68°16·4	6423	77°30·8	8584	88°19·2	9604	9
52	57·6	397	36·1	1785	21·6	3955	24·6	6464	41·0	8612	30·4	9608	8
53	59·3	412	39·8	1815	27·5	3996	32·9	6505	51·3	8640	41·6	9612	7
54	54 1·0	428	43·5	1846	33·4	4036	41·2	6546	78 1·5	8668	52·8	9615	6
55	2·7	444	47·3	1877	39·4	4077	49·5	6587	11·8	8695	89 4·0	9617	5
56	54° 4·5	460	56°51·1	1909	61°45·4	4118	68°57·8	6627	78°22·2	8722	89°15·2	9619	4
57	6·3	476	54·9	1940	51·5	4159	69 6·2	6668	32·5	8749	26·4	9621	3
58	8·1	493	58·7	1972	57·6	4200	14·6	6709	42·9	8775	37·6	9622	2
59	10·0	509	57 2·6	2004	62 3·7	4241	23·1	6749	53·3	8801	48·8	9623	1
60	11·8	527	6·6	2036	9·9	4283	31·6	6789	79 3·7	8827	90 0·0	9623	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	53°30.0	0 54°26.7	521 57°20.8	2011 62°22.8	4227 69°41.8	6696 79° 9.5	8700 60
1	30.0	0 28.6	538 24.8	2043 29.0	4268 50.3	6736 19.9	8725 59
2	30.1	1 30.6	556 28.8	2075 35.2	4309 58.8	6775 30.2	8749 58
3	30.1	1 32.5	574 32.8	2107 41.5	4350 70 7.3	6814 40.6	8773 57
4	30.2	2 34.6	592 36.9	2140 47.8	4391 15.9	6853 51.0	8797 56
5	30.4	4 36.6	610 41.0	2173 54.1	4432 24.5	6892 80 1.5	8820 55
6	53°30.6	5 54°38.7	629 57°45.1	2206 63° 0.5	4473 70°33.2	6931 80°12.0	8844 54
7	30.8	7 40.8	648 49.2	2239 6.9	4514 41.9	6970 22.5	8866 53
8	31.0	9 42.9	667 53.4	2273 13.3	4555 50.6	7008 33.0	8888 52
9	31.3	12 45.1	686 57.7	2306 19.8	4597 59.4	7046 43.5	8910 51
10	31.6	15 47.3	706 58 2.0	2339 26.3	4638 71 8.2	7084 54.1	8932 50
11	53°31.9	18 54°49.6	726 58° 6.3	2373 63°32.9	4680 71°17.0	7122 81° 4.6	8953 49
12	32.3	21 51.9	746 10.6	2408 39.5	4721 25.9	7160 15.2	8974 48
13	32.7	25 54.2	767 15.0	2442 46.1	4762 34.8	7198 25.9	8995 47
14	33.1	28 56.5	788 19.4	2477 52.8	4804 43.7	7235 36.5	9015 46
15	33.5	33 58.9	809 23.9	2512 59.6	4845 52.7	7273 47.1	9034 45
16	53°34.0	37 55° 1.3	830 58°28.4	2546 64° 6.3	4887 72° 1.7	7310 81°57.8	9053 44
17	34.5	42 3.7	852 32.9	2581 13.1	4929 10.7	7347 82 8.5	9072 43
18	35.1	47 6.2	874 37.5	2616 20.0	4970 19.8	7383 19.2	9090 42
19	35.7	52 8.7	896 42.1	2651 26.8	5012 28.9	7420 29.9	9109 41
20	36.3	58 11.3	918 46.7	2687 33.7	5054 38.1	7456 40.7	9127 40
21	53°36.9	64 55°13.8	940 58°51.4	2723 64°40.7	5095 72°47.3	7492 82°51.5	9144 39
22	37.6	71 16.4	963 56.1	2759 47.7	5137 56.5	7528 83 2.2	9160 38
23	38.3	77 19.1	986 59 0.8	2795 54.7	5179 73 5.7	7564 13.0	9177 37
24	39.0	84 21.8	1010 5.6	2831 65 1.8	5220 15.0	7599 23.8	9193 36
25	39.8	91 24.5	1033 10.4	2868 8.9	5262 24.3	7634 34.7	9209 35
26	53°40.6	99 55°27.2	1057 59°15.3	2904 65°16.0	5304 73°33.7	7669 83°45.5	9224 34
27	41.4	106 30.0	1081 20.2	2941 23.2	5345 43.0	7704 56.3	9239 33
28	42.3	114 32.8	1105 25.1	2978 30.5	5387 52.4	7738 84 7.2	9253 32
29	43.2	122 35.6	1130 30.1	3015 37.7	5429 74 1.9	7773 18.1	9267 31
30	44.1	131 38.5	1155 35.1	3052 45.0	5470 11.4	7807 29.0	9281 30
31	53°45.1	140 55°41.4	1181 59°40.1	3089 65°52.4	5512 74°20.9	7841 84°39.9	9294 29
32	46.1	149 44.4	1206 45.2	3127 59.7	5554 30.4	7875 50.8	9307 28
33	47.1	159 47.4	1231 50.3	3165 66 7.2	5595 40.0	7908 85 1.7	9319 27
34	48.1	169 50.4	1257 55.5	3203 14.6	5637 49.6	7941 12.7	9331 26
35	49.2	179 53.4	1283 60 0.7	3240 22.1	5678 59.2	7974 23.7	9342 25
36	53°50.3	189 55°56.5	1310 60° 5.9	3278 66°29.6	5720 75° 8.9	8006 85°34.6	9353 24
37	51.5	199 59.6	1337 11.2	3316 37.2	5761 18.6	8039 45.6	9363 23
38	52.7	210 56 2.8	1364 16.5	3355 44.8	5803 28.3	8071 56.6	9373 22
39	53.9	221 6.0	1391 21.8	3394 52.5	5844 38.1	8103 86 7.6	9383 21
40	55.1	233 9.2	1418 27.2	3432 67 0.1	5885 47.9	8134 18.6	9392 20
41	53°56.4	245 56°12.4	1445 60°32.6	3471 67° 7.8	5927 75°57.7	8165 86°29.6	9401 19
42	57.7	257 15.7	1473 38.1	3510 15.6	5968 76 7.5	8196 40.6	9409 18
43	59.0	269 19.0	1501 43.6	3549 23.4	6009 17.4	8227 51.7	9417 17
44	54 0.4	282 22.4	1529 49.1	3588 31.3	6050 27.3	8257 87 2.7	9424 16
45	1.8	294 25.8	1558 54.7	3627 39.2	6091 37.2	8287 13.7	9431 15
46	54° 3.2	308 56°29.2	1587 61° 0.3	3666 67°47.1	6132 76°47.2	8317 87°24.8	9438 14
47	4.7	321 32.7	1615 5.9	3706 55.0	6173 57.2	8346 35.9	9444 13
48	6.2	335 36.2	1644 11.6	3746 68 3.0	6214 77 7.2	8375 46.9	9450 12
49	7.7	349 39.7	1674 17.3	3785 11.0	6255 17.2	8404 58.0	9455 11
50	9.3	363 43.3	1703 23.1	3825 19.1	6295 27.3	8433 88 9.1	9460 10
51	54°10.9	377 56°46.9	1733 61°28.9	3865 68°27.2	6336 77°37.4	8461 88°20.2	9464 9
52	12.5	393 50.5	1763 34.7	3905 35.3	6376 47.6	8489 31.2	9467 8
53	14.2	407 54.2	1793 40.6	3945 43.5	6416 57.7	8516 42.3	9471 7
54	15.9	423 57.9	1824 46.5	3985 51.7	6457 78 7.9	8544 53.4	9474 6
55	17.6	438 57 1.6	1855 52.5	4025 69 0.0	6497 18.1	8571 89 4.5	9476 5
56	54°19.3	455 57° 5.4	1885 61°58.5	4065 69° 8.3	6537 78°28.3	8597 89°15.6	9478 4
57	21.1	470 9.2	1916 62 4.5	4105 16.6	6577 38.6	8623 26.7	9480 3
58	23.0	487 13.0	1948 10.6	4146 25.0	6617 48.9	8649 37.8	9481 2
59	24.8	504 16.9	1979 16.7	4187 33.4	6657 59.2	8675 48.9	9482 1
60	26.7	521 20.8	2011 22.8	4227 41.8	6696 79 9.5	8700 90 0.0	9482 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	53°45'0	0	54°41'5	515	57°35'1	1986	62°35'7	4173	69°52'0	6604	79°15'3	8574	60
1	45'0	0	43'4	532	39'0	2018	41'8	4214	70 0'4	6643	25'5	8599	59
2	45'1	1	45'4	549	43'0	2049	48'0	4254	8'8	6682	35'8	8623	58
3	45'1	1	47'4	567	47'0	2081	54'2	4294	17'3	6720	46'1	8647	57
4	45'2	2	49'4	585	51'0	2114	63 0'5	4334	25'9	6759	56'5	8670	56
5	45'4	4	51'4	603	55'1	2146	6'8	4374	34'4	6797	80 6'8	8693	55
6	53°45'6	5	54°53'5	621	57°59'2	2179	63°13'1	4415	70°43'0	6835	80°17'2	8716	54
7	45'8	7	55'6	640	58 3'4	2211	19'5	4455	51'6	6873	27'6	8738	53
8	46'0	9	57'7	659	7'6	2244	25'9	4496	71 0'3	6911	38'0	8760	52
9	46'3	11	59'9	678	11'8	2277	32'4	4537	9'0	6949	48'5	8781	51
10	46'6	14	55 2'1	698	16'0	2311	38'9	4577	17'7	6986	58'9	8802	50
11	53°46'9	17	55° 4'3	717	58°20'3	2344	63°45'4	4618	71°26'5	7023	81° 9'4	8823	49
12	47'2	21	6'6	737	24'7	2378	52'0	4659	35'3	7061	19'9	8844	48
13	47'6	24	8'9	758	29'0	2412	58'6	4700	44'1	7098	30'5	8864	47
14	48'1	28	11'3	778	33'4	2446	64 5'2	4741	53'0	7134	41'0	8883	46
15	48'5	33	13'6	799	37'9	2480	11'9	4782	72 1'9	7171	51'6	8903	45
16	53°49'0	37	55°16'0	820	58°42'3	2514	64°18'6	4823	72°10'9	7208	82° 2'1	8922	44
17	49'5	41	18'5	841	46'8	2549	25'4	4864	19'8	7244	12'7	8940	43
18	50'1	47	20'9	863	51'4	2584	32'2	4905	28'9	7280	23'3	8958	42
19	50'6	52	23'4	885	56'0	2619	39'0	4946	37'9	7316	34'0	8976	41
20	51'2	58	26'0	907	59 0'6	2654	45'9	4987	47'0	7352	44'6	8993	40
21	53°51'9	64	55°28'5	929	59° 5'2	2689	64°52'8	5028	72°56'1	7387	82°55'3	9010	39
22	52'6	70	31'1	952	9'9	2724	59'8	5069	73 5'2	7422	83 6'0	9027	38
23	53'3	76	33'8	975	14'7	2760	65 6'8	5110	14'4	7457	16'7	9043	37
24	54'0	83	36'4	998	19'4	2796	13'8	5151	23'6	7492	27'4	9058	36
25	54'8	90	39'1	1021	24'2	2832	20'8	5192	32'9	7527	38'1	9074	35
26	53°55'6	97	55°41'9	1045	59°29'0	2868	65°27'9	5233	73°42'2	7561	83°48'9	9089	34
27	56'4	105	44'6	1069	33'9	2904	35'1	5274	51'5	7596	59'6	9103	33
28	57'2	113	47'4	1093	38'8	2940	42'3	5315	74 0'8	7630	84 10'4	9118	32
29	58'1	121	50'3	1117	43'8	2977	49'5	5356	10'2	7663	21'2	9131	31
30	59'1	130	53'1	1141	48'8	3013	56'8	5397	19'6	7697	32'0	9144	30
31	54° 0'0	138	55°56'0	1166	59°53'8	3050	66° 4'1	5438	74°29'0	7730	84°42'8	9157	29
32	1'0	148	59'0	1191	58'9	3087	11'4	5479	38'5	7763	53'6	9170	28
33	2'0	157	56 1'9	1217	60 4'0	3124	18'7	5520	48'0	7796	85 4'5	9182	27
34	3'1	167	4'9	1242	9'1	3162	26'1	5561	57'5	7828	15'3	9193	26
35	4'2	177	8'0	1268	14'3	3199	33'6	5602	75 7'1	7861	26'2	9205	25
36	54° 5'3	187	56°11'1	1294	60°19'5	3237	66°41'1	5643	75°16'7	7893	85°37'0	9215	24
37	6'4	197	14'2	1320	24'7	3274	48'6	5684	26'3	7925	47'9	9226	23
38	7'6	208	17'3	1347	30'0	3312	56'2	5725	35'9	7956	58'8	9236	22
39	8'8	219	20'5	1373	35'3	3350	67 3'8	5765	45'6	7987	86 9'7	9245	21
40	10'0	230	23'6	1400	40'7	3388	11'4	5806	55'3	8018	20'6	9254	20
41	54°11'3	242	56°26'9	1427	60°46'1	3426	67°19'1	5847	76° 5'0	8049	86°31'5	9263	19
42	12'6	254	30'2	1455	51'5	3465	26'8	5887	14'8	8079	42'5	9271	18
43	13'9	266	33'5	1482	56'9	3503	34'5	5928	24'6	8109	53'4	9279	17
44	15'3	278	36'9	1510	61 2'5	3542	42'3	5968	34'4	8139	87 4'3	9286	16
45	16'7	291	40'2	1538	8'0	3580	50'2	6009	44'3	8169	15'2	9293	15
46	54°18'1	304	56°43'6	1567	61°13'6	3619	67°58'0	6049	76°54'2	8198	87°26'2	9299	14
47	19'6	317	47'1	1595	19'2	3658	68 5'9	6089	77 4'1	8227	37'2	9305	13
48	21'1	331	50'5	1624	24'9	3697	13'8	6130	14'0	8255	48'1	9311	12
49	22'6	345	54'1	1653	30'5	3736	21'8	6170	24'0	8284	59'1	9316	11
50	24'2	359	57'6	1682	36'3	3775	29'9	6210	34'0	8312	88 10'1	9321	10
51	54°25'8	373	57° 1'2	1712	61°42'0	3815	68°37'9	6249	77°44'0	8339	88°21'1	9325	9
52	27'4	388	4'9	1741	47'8	3854	46'0	6289	54'0	8367	32'0	9328	8
53	29'0	403	8'5	1771	53'6	3894	54'1	6329	78 4'1	8394	43'0	9332	7
54	30'7	418	12'2	1801	59'6	3933	69 2'3	6369	14'2	8421	54'0	9335	6
55	32'5	433	15'9	1832	62 5'5	3973	10'4	6408	24'3	8447	89 5'0	9337	5
56	54°34'2	449	57°19'7	1862	62°11'5	4013	69°18'7	6448	78°34'5	8473	89°16'0	9339	4
57	36'0	465	23'5	1893	17'5	4053	27'0	6487	44'6	8499	27'0	9340	3
58	37'8	481	27'3	1924	23'5	4093	35'3	6526	54'8	8524	38'0	9341	2
59	39'6	498	31'2	1955	29'6	4133	43'6	6565	79 5'0	8549	49'0	9342	1
60	41'5	515	35'1	1986	35'7	4173	52'0	6604	15'3	8574	90 0'0	9343	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	54° 0' 0	0 54° 56' 4	508 57° 49' 3	1962 62° 48' 5	4118 70° 2' 1	6513 79° 21' 0	8450 60
1	0 0' 0	0 58' 3	525 53' 2	1993 54' 6	4158 10' 5	6551 31' 2	8474 59
2	0 1' 0	1 55 0' 2	542 57' 2	2024 63 0' 8	4197 18' 9	6589 41' 4	8497 58
3	0 1' 1	1 2' 2	560 58 1' 2	2056 7' 0	4237 27' 3	6627 51' 6	8521 57
4	0 2' 2	2 4' 2	578 5' 2	2087 13' 2	4277 35' 8	6665 80 1' 9	8544 56
5	0 4' 4	4 6' 2	596 9' 3	2119 19' 5	4317 44' 3	6702 12' 1	8566 55
6	54° 0' 6	5 55° 8' 3	614 58° 13' 4	2151 63° 25' 8	4357 70° 52' 8	6740 80° 22' 4	8588 54
7	0 8' 7	7 10' 4	632 17' 5	2183 32' 1	4397 71 1' 4	6777 32' 7	8610 53
8	1 0' 7	9 12' 5	651 21' 7	2216 38' 5	4437 10' 0	6814 43' 1	8632 52
9	1 3' 11	11 14' 7	670 25' 9	2249 44' 9	4477 18' 6	6851 53' 4	8653 51
10	1 6' 14	14 16' 9	689 30' 1	2282 51' 4	4517 27' 3	6888 81 3' 8	8674 50
11	54° 1' 9	17 55° 19' 1	709 58° 34' 4	2315 63° 57' 9	4557 71° 36' 0	6925 81° 14' 2	8694 49
12	2 2' 21	21 21' 4	729 38' 7	2348 64 4' 4	4597 44' 7	6961 24' 6	8714 48
13	2 6' 24	23' 7	749 43' 0	2381 11' 0	4638 53' 5	6998 35' 0	8734 47
14	3 1' 28	26' 0	769 47' 4	2415 17' 6	4678 72 2' 3	7034 45' 5	8753 46
15	3 5' 32	28' 4	789 51' 8	2449 24' 2	4718 11' 1	7070 56' 0	8772 45
16	54° 4' 0	37 55° 30' 8	810 58° 56' 3	2483 64° 30' 9	4759 72° 20' 0	7106 82° 6' 5	8791 44
17	4 5' 41	33' 2	831 59 0' 8	2517 37' 6	4799 28' 9	7142 17' 0	8809 43
18	5 0' 46	35' 6	852 5' 3	2551 44' 4	4839 37' 9	7178 27' 5	8827 42
19	5 6' 51	38' 1	874 9' 9	2585 51' 2	4880 46' 8	7213 38' 0	8844 41
20	6 2' 57	40' 7	896 14' 5	2620 58' 0	4920 55' 9	7248 48' 6	8861 40
21	54° 6' 9	63 55° 43' 2	918 59° 19' 1	2655 65° 4' 9	4961 73° 4' 9	7283 82° 59' 1	8878 39
22	7 6' 69	45' 8	940 23' 8	2690 11' 8	5001 14' 0	7318 83 9' 7	8894 38
23	8 3' 75	48' 4	963 28' 5	2725 18' 7	5041 23' 1	7352 20' 3	8910 37
24	9 0' 82	51' 1	986 33' 2	2760 25' 7	5082 32' 2	7386 30' 9	8926 36
25	9 7' 89	53' 8	1009 38' 0	2795 32' 7	5122 41' 4	7420 41' 6	8941 35
26	54° 10' 5	96 55° 56' 5	1032 59° 42' 8	2831 65° 39' 8	5162 73° 50' 6	7454 83° 52' 2	8955 34
27	11 4' 104	59' 3	1055 47' 7	2867 46' 9	5203 58' 8	7488 84 2' 9	8969 33
28	12 2' 112	56 2' 1	1079 52' 6	2903 54' 0	5244 74 9' 1	7521 13' 6	8984 32
29	13 1' 120	4' 9	1104 57' 5	2939 66 1' 2	5284 18' 4	7555 24' 3	8997 31
30	14 0' 128	7' 7	1128 60 2' 4	2975 8' 4	5325 27' 7	7588 35' 0	9010 30
31	54° 15' 0	137 56° 10' 6	1152 60° 7' 4	3011 66° 15' 7	5365 74° 37' 1	7620 84° 45' 7	9022 29
32	16 0' 146	13' 6	1177 12' 5	3047 23' 0	5405 46' 5	7652 56' 4	9034 28
33	17 0' 155	16' 5	1202 17' 5	3084 30' 3	5446 55' 9	7685 85 7' 1	9046 27
34	18 0' 164	19' 5	1227 22' 7	3121 37' 7	5486 75 5' 4	7717 17' 9	9058 26
35	19 1' 174	22' 5	1252 27' 8	3158 45' 1	5526 14' 9	7748 28' 7	9069 25
36	54° 20' 2	184 56° 25' 6	1278 60° 33' 0	3195 66° 52' 5	5566 75° 24' 4	7780 85° 39' 4	9079 24
37	21 3' 194	28' 7	1304 38' 2	3233 67 0' 0	5607 33' 9	7811 50' 2	9089 23
38	22 5' 205	31' 8	1330 43' 5	3270 7' 5	5647 43' 5	7842 86 1' 0	9099 22
39	23 7' 216	35' 0	1356 48' 7	3307 15' 0	5687 53' 1	7873 11' 8	9109 21
40	25 0' 229	38' 2	1383 54' 1	3345 22' 6	5727 76 2' 7	7904 22' 6	9118 20
41	54° 26' 2	239 56° 41' 4	1410 60° 59' 4	3383 67° 30' 2	5767 76° 12' 4	7933 86° 33' 4	9126 19
42	27 5' 250	44' 7	1437 61 4' 8	3421 37' 9	5807 22' 1	7963 44' 2	9134 18
43	28 9' 263	48' 0	1464 10' 3	3458 45' 6	5847 31' 8	7993 55' 1	9141 17
44	30 2' 275	51' 3	1492 15' 8	3496 53' 3	5887 41' 5	8022 87 5' 9	9148 16
45	31 6' 287	54' 7	1520 21' 3	3534 68 1' 1	5927 51' 3	8051 16' 8	9155 15
46	54° 33' 0	300 56° 58' 1	1548 61° 26' 8	3573 68° 8' 9	5966 77° 1' 1	8080 87° 27' 6	9161 14
47	34 5' 314	57 1' 5	1576 32' 4	3611 16' 8	6006 10' 9	8108 38' 5	9167 13
48	36 0' 327	5' 0	1604 38' 1	3649 24' 7	6046 20' 8	8136 49' 3	9173 12
49	37 5' 341	8' 5	1632 43' 7	3688 32' 6	6085 30' 6	8164 88 0' 2	9178 11
50	39 1' 354	12' 0	1661 49' 4	3726 40' 5	6125 40' 6	8192 11' 1	9182 10
51	54° 40' 7	368 57° 15' 6	1691 61° 55' 2	3765 68° 48' 5	6164 77° 50' 5	8219 88° 22' 0	9186 9
52	42 3' 383	19' 2	1720 62 0' 9	3804 56' 6	6203 78 0' 4	8246 32' 9	9190 8
53	43 9' 398	22' 8	1750 6' 8	3843 69 4' 6	6242 10' 4	8272 43' 7	9194 7
54	45 6' 413	26' 5	1779 12' 6	3882 12' 7	6281 20' 4	8299 54' 6	9197 6
55	47 3' 428	30' 2	1809 18' 5	3921 20' 9	6320 30' 5	8325 89 5' 5	9199 5
56	54° 49' 1	444 57° 34' 0	1840 62° 24' 4	3960 69° 29' 1	6359 78° 40' 5	8351 89° 16' 4	9200 4
57	50 8' 459	37' 8	1870 30' 4	4000 37' 3	6398 50' 6	8376 27' 3	9202 3
58	52 6' 476	41' 6	1900 36' 4	4040 45' 5	6436 79 0' 7	8401 38' 2	9203 2
59	54 5' 492	45' 4	1931 42' 4	4079 53' 8	6474 10' 9	8425 49' 1	9204 1
60	56 4' 508	49' 3	1962 48' 5	4118 70 2' 1	6513 21' 0	8450 90 0' 0	9204 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	54°15.0	0	55°11.2	502	58° 3.5	1937	63° 1.3	4064	70°12.2	6422	79°26.7	8326	60
1	15.0	0	13.1	519	7.4	1968	7.4	4103	20.5	6459	36.8	8350	59
2	15.1	1	15.0	536	11.4	1999	13.5	4142	28.9	6497	46.9	8373	58
3	15.1	1	17.0	553	15.3	2030	19.7	4181	37.2	6534	57.1	8396	57
4	15.2	2	19.0	571	19.3	2061	25.9	4220	45.6	6571	80 7.2	8418	56
5	15.4	3	21.0	588	23.4	2093	32.1	4260	54.1	6608	17.4	8440	55
6	54°15.6	5	55°23.1	606	58°27.5	2124	63°38.4	4299	71° 2.5	6645	80°27.6	8462	54
7	15.8	7	25.2	624	31.6	2156	44.7	4338	11.0	6682	37.8	8484	53
8	16.0	9	27.3	643	35.7	2188	51.0	4378	19.6	6719	48.1	8505	52
9	16.3	11	29.5	662	39.9	2220	57.4	4417	28.2	6755	58.3	8526	51
10	16.6	14	31.6	681	44.1	2253	64 3.8	4457	36.8	6791	81 8.6	8546	50
11	54°16.9	17	55°33.9	700	58°48.4	2285	64°10.3	4496	71°45.4	6827	81°18.9	8566	49
12	17.2	20	36.1	720	52.7	2318	16.8	4536	54.1	6863	29.3	8586	48
13	17.6	24	38.4	739	57.0	2351	23.3	4576	72 2.8	6899	39.6	8606	47
14	18.0	28	40.7	759	59 1.4	2384	29.9	4615	11.5	6935	49.9	8624	46
15	18.5	32	43.1	780	5.8	2418	36.5	4655	20.3	6971	82 0.3	8643	45
16	54°19.0	36	55°45.5	800	59°10.2	2451	64°43.1	4695	72°29.1	7006	82°10.7	8661	44
17	19.5	41	47.9	821	14.7	2485	49.8	4734	38.0	7041	21.1	8679	43
18	20.0	46	50.3	842	19.2	2519	56.5	4774	46.8	7076	31.6	8697	42
19	20.6	51	52.8	864	23.7	2553	65 3.3	4814	55.7	7110	42.0	8714	41
20	21.2	56	55.3	885	28.3	2587	10.1	4854	73 4.7	7145	52.5	8730	40
21	54°21.9	62	55°57.9	907	59°32.9	2621	65°16.9	4894	73°13.7	7179	83° 2.9	8747	39
22	22.5	68	56 0.5	929	37.6	2655	23.8	4934	22.7	7213	13.4	8763	38
23	23.2	74	3.1	951	42.3	2690	30.7	4973	31.7	7247	24.0	8778	37
24	23.9	81	5.7	973	47.0	2725	37.6	5013	40.8	7281	34.5	8793	36
25	24.7	88	8.4	996	51.8	2760	44.6	5053	49.9	7315	45.0	8808	35
26	54°25.5	95	56°11.1	1019	59°56.5	2795	65°51.6	5093	73°59.0	7348	83°55.6	8823	34
27	26.3	103	13.9	1042	60 1.4	2830	58.7	5133	74 8.2	7381	84 6.1	8837	33
28	27.2	110	16.6	1066	6.2	2866	66 5.8	5173	17.4	7414	16.7	8851	32
29	28.1	119	19.5	1090	11.1	2901	12.9	5212	26.6	7446	27.3	8864	31
30	29.0	127	22.3	1114	16.1	2937	20.1	5252	35.8	7479	37.9	8876	30
31	54°29.9	135	56°25.2	1138	60°21.1	2973	66°27.3	5292	74°45.1	7511	84°48.5	8889	29
32	30.9	144	28.1	1162	26.1	3009	34.5	5332	54.5	7543	59.2	8901	28
33	31.9	153	31.1	1187	31.1	3045	41.8	5372	75 3.8	7574	85 9.8	8912	27
34	33.0	162	34.1	1212	36.2	3081	49.1	5411	13.2	7606	20.5	8923	26
35	34.1	172	37.1	1237	41.3	3117	56.5	5451	22.6	7637	31.1	8934	25
36	54°35.2	182	56°40.1	1262	60°46.5	3154	67° 3.9	5491	75°32.0	7668	85°41.8	8944	24
37	36.3	192	43.2	1288	51.7	3191	11.3	5530	41.5	7699	52.5	8954	23
38	37.5	203	46.3	1314	56.9	3227	18.8	5570	51.0	7729	86 3.2	8964	22
39	38.7	214	49.5	1340	61 2.2	3264	26.3	5609	76 0.5	7759	13.9	8973	21
40	39.9	225	52.7	1366	7.5	3301	33.8	5649	10.1	7789	24.6	8982	20
41	54°41.2	236	56°55.9	1392	61°12.8	3338	67°41.4	5688	76°19.6	7819	86°35.3	8990	19
42	42.5	248	59.1	1419	18.2	3376	49.0	5727	29.3	7848	46.0	8998	18
43	43.8	260	57 2.4	1446	23.6	3413	56.6	5767	38.9	7877	56.8	9005	17
44	45.1	272	5.7	1473	29.1	3451	68 4.3	5806	48.6	7906	87 7.5	9012	16
45	46.5	284	9.1	1501	34.5	3488	12.1	5845	58.3	7934	18.3	9019	15
46	54°47.9	297	57°12.5	1528	61°40.1	3526	68°19.8	5884	77° 8.0	7963	87°29.0	9025	14
47	49.4	310	15.9	1556	45.6	3564	27.6	5923	17.7	7991	39.8	9031	13
48	50.9	323	19.3	1584	51.2	3602	35.4	5962	27.5	8018	50.5	9036	12
49	52.4	336	22.8	1612	56.9	3640	43.3	6001	37.3	8046	88 1.3	9041	11
50	54.0	350	26.4	1641	62 2.6	3678	51.2	6040	47.1	8073	12.1	9046	10
51	54°55.5	364	57°29.9	1670	62° 8.3	3716	68°59.2	6078	77°57.0	8099	88°22.9	9050	9
52	57.1	378	33.5	1699	14.0	3754	69 7.1	6117	78 6.8	8126	33.6	9054	8
53	58.8	393	37.1	1728	19.8	3793	15.1	6155	16.7	8152	44.4	9057	7
54	55 0.5	408	40.8	1757	25.6	3831	23.2	6194	26.7	8178	55.2	9059	6
55	2.2	423	44.5	1786	31.5	3870	31.3	6232	36.7	8203	89 6.0	9062	5
56	55° 3.9	438	57°48.2	1816	62°37.4	3908	69°39.4	6270	78°46.6	8228	89°16.9	9064	4
57	5.7	454	52.0	1846	43.3	3947	47.5	6308	56.6	8253	27.6	9065	3
58	7.5	470	55.8	1876	49.3	3986	55.7	6346	79 6.6	8278	38.4	9066	2
59	9.3	486	59.7	1906	55.3	4025	70 4.0	6384	16.7	8302	49.2	9067	1
60	11.2	502	58 3.5	1937	63 1.3	4064	12.2	6422	26.7	8326	90 0.0	9067	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	54°30'0	0 55°26'0	496 58°17'7	1912 63°14'1	4009 70°22'3	6331 79°32'4	8204 60
1	30'0	0 27'9	512 21'6	1942 20'1	4048 30'5	6368 42'4	8227 59
2	30'1	1 29'8	529 25'5	1973 26'2	4087 38'8	6405 52'4	8249 58
3	30'1	1 31'8	546 29'5	2004 32'3	4125 47'1	6442 80 2'5	8272 57
4	30'2	2 33'8	563 33'5	2035 38'5	4164 55'4	6478 12'6	8294 56
5	30'4	3 35'8	581 37'5	2066 44'7	4203 71 3'8	6515 22'7	8316 55
6	54°30'6	5 55°37'9	599 58°41'6	2097 63°50'9	4241 71°12'2	6551 80°32'8	8337 54
7	30'8	7 40'0	617 45'7	2128 57'2	4280 20'7	6587 42'9	8359 53
8	31'0	9 42'1	635 49'8	2160 64 3'5	4319 29'1	6623 53'1	8380 52
9	31'3	11 44'2	654 54'0	2192 9'9	4358 37'7	6659 81 3'2	8400 51
10	31'6	14 46'4	673 58'2	2224 16'3	4397 46'2	6695 13'4	8420 50
11	54°31'9	17 55°48'6	692 59° 2'4	2256 64°22'7	4436 71°54'8	6731 81°23'7	8440 49
12	32'2	20 50'9	711 6'7	2288 29'1	4475 72 3'4	6766 33'9	8459 48
13	32'6	23 53'2	731 11'0	2321 35'6	4514 12'0	6801 44'1	8478 47
14	33'0	27 55'5	750 15'3	2354 42'2	4553 20'7	6836 54'4	8496 46
15	33'5	31 57'8	770 19'7	2387 48'7	4592 29'4	6871 82 4'7	8515 45
16	54°34'0	36 56° 0'2	790 59°24'1	2420 64°55'3	4632 72°38'2	6905 82°15'0	8533 44
17	34'5	40 2'6	811 28'6	2453 65 2'0	4671 46'9	6940 25'3	8550 43
18	35'0	45 5'0	832 33'1	2486 8'7	4710 55'8	6975 35'6	8567 42
19	35'6	50 7'5	853 37'6	2520 15'4	4749 73 4'6	7009 46'0	8584 41
20	36'2	56 10'0	874 42'1	2553 22'1	4788 13'5	7042 56'4	8601 40
21	54°36'8	61 56°12'6	896 59°46'7	2587 65°28'9	4827 73°22'4	7076 83° 6'7	8617 39
22	37'5	67 15'1	917 51'4	2621 35'7	4867 31'3	7110 17'1	8632 38
23	38'2	74 17'7	939 56'0	2656 42'6	4906 40'3	7143 27'6	8648 37
24	38'9	80 20'4	962 60 0'7	2690 49'5	4945 49'3	7176 38'0	8663 36
25	39'7	87 23'1	984 5'5	2724 56'4	4984 58'3	7209 48'4	8677 35
26	54°40'5	94 56°25'8	1007 60°10'2	2759 66° 3'4	5023 74° 7'4	7242 83°58'9	8691 34
27	41'3	102 28'5	1030 15'0	2794 10'4	5063 16'5	7275 84 9'4	8705 33
28	42'1	109 31'3	1053 19'9	2828 17'5	5102 25'6	7307 19'8	8718 32
29	43'0	117 34'1	1076 24'8	2863 24'6	5141 34'7	7339 30'3	8731 31
30	43'9	125 36'9	1100 29'7	2898 31'7	5180 43'9	7371 40'9	8744 30
31	54°44'9	133 56°39'8	1124 60°34'6	2934 66°38'8	5220 74°53'1	7402 84°51'4	8756 29
32	45'9	142 42'7	1148 39'6	2969 46'1	5259 75 2'4	7434 85 1'9	8768 28
33	46'9	151 45'6	1172 44'6	3005 53'3	5298 11'7	7465 12'4	8779 27
34	47'9	160 48'6	1197 49'7	3041 67 0'6	5337 21'0	7496 23'0	8790 26
35	49'0	170 51'6	1222 54'8	3077 7'9	5376 30'3	7526 33'6	8801 25
36	54°50'1	180 56°54'6	1247 60°59'9	3112 67°15'2	5415 75°39'7	7557 85°44'2	8811 24
37	51'2	190 57'7	1272 61 5'1	3149 22'6	5454 49'0	7587 54'7	8821 23
38	52'4	200 57 0'8	1297 10'3	3185 30'0	5493 58'5	7617 86 5'3	8830 22
39	53'6	211 4'0	1323 15'6	3221 37'5	5532 76 7'9	7647 16'0	8839 21
40	54'8	222 7'1	1349 20'8	3258 44'9	5570 17'4	7676 26'6	8848 20
41	54°56'1	233 57°10'3	1375 61°26'2	3295 67°52'5	5609 76°26'9	7705 86°37'2	8856 19
42	57'4	245 13'6	1401 31'5	3332 68 0'0	5648 36'4	7734 47'8	8864 18
43	58'7	256 16'8	1428 36'9	3368 7'6	5687 46'0	7763 58'4	8871 17
44	55 0'0	268 20'2	1455 42'3	3405 15'3	5726 55'6	7791 87 9'1	8878 16
45	1'4	280 23'5	1482 47'8	3442 22'9	5764 77 5'2	7819 19'7	8884 15
46	55° 2'8	293 57°26'9	1509 61°53'3	3479 68°30'6	5803 77°14'8	7846 87°30'4	8890 14
47	4'3	306 30'3	1536 58'8	3517 38'4	5841 24'5	7874 41'1	8896 13
48	5'8	319 33'7	1564 62 4'4	3554 46'2	5879 34'2	7901 51'7	8901 12
49	7'3	332 37'2	1592 10'0	3592 54'0	5917 43'9	7928 88 2'4	8906 11
50	8'8	345 40'7	1620 15'6	3629 69 1'8	5956 53'6	7955 13'1	8910 10
51	55°10'4	359 57°44'3	1649 62°21'3	3667 69° 9'7	5994 78° 3'4	7981 88 23'7	8914 9
52	12'0	373 47'8	1677 27'0	3704 17'6	6031 13'2	8007 34'4	8918 8
53	13'7	388 51'4	1706 32'8	3742 25'6	6069 23'0	8033 45'1	8921 7
54	15'3	403 55'1	1735 38'6	3780 33'6	6107 32'9	8058 55'8	8924 6
55	17'0	418 58'8	1763 44'4	3818 41'6	6145 42'7	8083 89 6'5	8926 5
56	55°18'8	433 58° 2'5	1793 62°50'3	3856 69°49'7	6182 78°52'6	8108 89°17'2	8928 4
57	20'5	448 6'2	1823 56'2	3895 57'8	6220 79 2'5	8132 27'9	8929 3
58	22'3	464 10'0	1852 63 2'1	3933 70 5'9	6257 12'5	8156 38'6	8930 2
59	24'2	480 13'9	1882 8'1	3970 14'1	6294 22'4	8180 49'3	8931 1
60	26'0	496 17'7	1912 14'1	4009 22'3	6331 32'4	8204 90 0'0	8931 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H						
0	54°45.0	0 55°40.8	490	58°31.9	1888	63°26.8	3956	70°32.3	6242	79°38.1	8082	60
1	45.0	0 42.7	507	35.8	1918	32.8	3994	40.5	6278	48.0	8105	59
2	45.1	1 44.6	523	39.7	1948	38.9	4032	48.7	6314	57.9	8127	58
3	45.1	1 46.6	540	43.6	1978	45.0	4070	57.0	6350	80 7.9	8149	57
4	45.2	2 48.6	557	47.6	2009	51.1	4108	71 5.2	6386	17.9	8171	56
5	45.4	3 50.6	574	51.6	2039	57.3	4146	13.5	6422	27.9	8193	55
6	54°45.6	5 55°52.6	591	58°55.6	2070	64° 3.5	4184	71°21.9	6458	80°37.9	8214	54
7	45.8	7 54.7	609	59.7	2101	9.7	4222	30.3	6494	47.9	8235	53
8	46.0	9 56.8	627	59 3.8	2132	16.0	4261	38.7	6529	58.0	8255	52
9	46.3	11 59.0	646	8.0	2164	22.3	4299	47.1	6564	81 8.1	8275	51
10	46.6	14 56 1.2	664	12.2	2195	28.6	4337	55.6	6599	18.2	8295	50
11	54°46.9	17 56° 3.4	683	59°16.4	2227	64°35.0	4376	72° 4.1	6634	81°28.3	8314	49
12	47.2	19 5.6	702	20.7	2259	41.4	4414	12.7	6669	38.4	8333	48
13	47.6	23 7.9	721	24.9	2291	47.9	4453	21.3	6704	48.6	8352	47
14	48.0	27 10.2	741	29.3	2323	54.4	4491	29.9	6738	58.8	8370	46
15	48.5	31 12.5	761	33.6	2356	65 0.9	4530	38.5	6772	82 9.0	8388	45
16	54°48.9	35 56°14.9	781	59°38.0	2388	65° 7.5	4568	72°47.2	6807	82°19.2	8406	44
17	49.5	40 17.3	801	42.5	2421	14.0	4607	55.9	6841	29.4	8423	43
18	50.0	45 19.8	821	46.9	2454	20.7	4646	73 4.6	6874	39.7	8440	42
19	50.6	49 22.2	842	51.4	2487	27.4	4684	13.4	6908	49.9	8456	41
20	51.2	55 24.7	863	56.0	2520	34.1	4723	22.2	6941	83 0.2	8472	40
21	54°51.8	60 56°27.2	884	60° 0.5	2554	65°40.9	4762	73°31.1	6975	83°10.5	8488	39
22	52.5	67 29.8	906	5.1	2587	47.7	4800	39.9	7008	20.8	8503	38
23	53.2	73 32.4	927	9.8	2621	54.5	4839	48.8	7040	31.1	8518	37
24	53.9	79 35.0	949	14.5	2655	66 1.3	4877	57.8	7073	41.5	8533	36
25	54.7	86 37.7	972	19.2	2689	8.2	4916	74 6.7	7105	51.8	8547	35
26	54°55.4	93 56°40.4	994	60°23.9	2723	66°15.2	4955	74°15.7	7137	84° 2.2	8561	34
27	56.3	100 43.1	1017	28.7	2757	22.1	4993	24.7	7169	12.6	8575	33
28	57.1	108 45.9	1040	33.5	2792	29.1	5032	33.8	7201	23.0	8588	32
29	58.0	116 48.7	1063	38.4	2826	36.2	5071	42.9	7233	33.4	8601	31
30	58.9	124 51.5	1086	43.3	2861	43.3	5109	52.0	7264	43.8	8613	30
31	54°59.8	132 56°54.3	1109	60°48.2	2896	66°50.4	5148	75° 1.1	7295	84°54.2	8625	29
32	55 0.8	141 57.2	1133	53.2	2931	57.5	5186	10.3	7326	85 4.6	8636	28
33	1.8	149 57 0.2	1157	58.2	2966	67 4.7	5225	19.5	7356	15.1	8647	27
34	2.9	159 3.1	1182	61 3.2	3001	11.9	5263	28.7	7387	25.6	8658	26
35	3.9	168 6.1	1206	8.3	3036	19.2	5302	38.0	7417	36.0	8669	25
36	55° 5.0	178 57° 9.1	1231	61°13.4	3072	67°26.5	5340	75°47.3	7447	85°46.5	8679	24
37	6.2	187 12.2	1256	18.5	3108	33.8	5378	56.6	7476	57.0	8689	23
38	7.3	198 15.3	1281	23.7	3143	41.2	5417	76 5.9	7506	86 7.5	8698	22
39	8.5	209 18.4	1306	28.9	3179	48.6	5455	15.3	7535	18.0	8707	21
40	9.7	219 21.6	1332	34.2	3215	56.1	5493	24.7	7564	28.5	8715	20
41	55°11.0	230 57°24.8	1358	61°39.5	3251	68° 3.5	5532	76°34.1	7592	86°39.0	8723	19
42	12.3	242 28.0	1384	44.8	3288	11.0	5570	43.6	7621	49.6	8730	18
43	13.6	253 31.3	1410	50.1	3324	18.6	5608	53.0	7649	87 0.1	8737	17
44	14.9	265 34.6	1437	55.5	3360	26.2	5646	77 2.5	7677	10.7	8744	16
45	16.3	277 37.9	1463	62 1.0	3397	33.8	5683	12.1	7704	21.2	8750	15
46	55°17.7	289 57°41.3	1490	62° 6.4	3433	68°41.4	5721	77°21.6	7731	87°31.8	8756	14
47	19.2	302 44.7	1517	11.9	3470	49.1	5759	31.2	7758	42.4	8762	13
48	20.7	315 48.1	1544	17.5	3507	56.9	5797	40.8	7785	52.9	8767	12
49	22.2	328 51.5	1572	23.1	3544	69 4.6	5834	50.5	7811	88 3.5	8772	11
50	23.7	341 55.0	1600	28.7	3581	12.4	5872	78 0.1	7837	14.0	8776	10
51	55°25.3	355 57°58.6	1628	62°34.3	3618	69°20.2	5909	78° 9.8	7863	88°24.6	8780	9
52	26.9	369 58 2.1	1656	40.0	3655	28.1	5947	19.5	7889	35.2	8784	8
53	28.5	383 5.7	1684	45.7	3693	36.0	5984	29.3	7914	45.8	8787	7
54	30.1	398 9.4	1713	51.5	3730	44.0	6021	39.0	7939	56.4	8790	6
55	31.9	412 13.0	1741	57.3	3767	51.9	6058	48.8	7964	89 7.0	8792	5
56	55°33.6	428 58°16.7	1770	63° 3.1	3805	69°59.9	6095	78°58.6	7988	89°17.6	8794	4
57	35.4	443 20.5	1800	9.0	3843	70 8.0	6132	79 8.4	8012	28.2	8795	3
58	37.2	458 24.2	1829	14.9	3880	16.0	6169	18.3	8036	38.8	8796	2
59	39.0	474 28.0	1858	20.8	3918	24.1	6205	28.2	8059	49.4	8797	1
60	40.8	490 31.9	1888	26.8	3956	32.3	6242	38.1	8082	90 0.0	8797	0
	11 H	10 H	9 H	8 H	7 H	6 H	m					

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	55° 0-0	0 55°55-7	484 58°46-0	1864 63°39-5	3902 70°42-3	6153 79°43-7	7961 60
1	0-0	0 57-5	500 49-9	1893 45-5	3940 50-4	6189 53-5	7984 59
2	0-1	1 59-4	516 53-8	1923 51-5	3977 58-6	6225 80 3-4	8006 58
3	0-1	1 56 1-4	533 57-7	1953 57-6	4015 71 6-7	6260 13-2	8028 57
4	0-2	2 3-4	550 59 1-7	1983 64 3-7	4053 15-0	6295 23-1	8049 56
5	0-4	3 5-4	567 5-7	2013 9-8	4090 23-2	6330 33-0	8070 55
6	55° 0-6	5 56° 7-4	584 59° 9-7	2043 64°16-0	4128 71°31-5	6365 80°43-0	8091 54
7	0-8	7 9-5	602 13-8	2074 22-2	4165 39-8	6400 52-9	8111 53
8	1-0	9 11-6	619 17-9	2105 28-4	4203 48-2	6435 81 2-9	8131 52
9	1-3	11 13-7	637 22-0	2136 34-7	4241 56-6	6470 12-9	8151 51
10	1-6	14 15-9	656 26-2	2167 41-0	4278 72 5-0	6505 22-9	8170 50
11	55° 1-9	16 56°18-1	674 59°30-4	2198 64°47-3	4316 72°13-4	6539 81°33-0	8189 49
12	2-2	19 20-3	693 34-6	2230 53-7	4354 21-9	6573 43-0	8208 48
13	2-6	23 22-6	712 38-9	2262 65 0-2	4392 30-4	6607 53-1	8227 47
14	3-0	26 24-9	731 43-2	2294 6-6	4430 39-0	6641 82 3-2	8245 46
15	3-5	31 27-2	751 47-5	2325 13-1	4468 47-6	6675 13-3	8262 45
16	55° 3-9	35 56°29-6	771 59°51-9	2357 65°19-6	4506 72°56-2	6709 82°23-4	8279 44
17	4-4	39 32-0	791 56-3	2390 26-2	4544 73 4-8	6742 33-5	8296 43
18	5-0	44 34-4	811 60 0-7	2422 32-8	4582 13-5	6775 43-7	8313 42
19	5-6	49 36-9	832 5-2	2455 39-4	4620 22-2	6808 53-9	8329 41
20	6-2	54 39-4	852 9-7	2487 46-1	4658 30-9	6841 83 4-0	8345 40
21	55° 6-8	60 56°41-9	873 60°14-3	2520 65°52-8	4696 73°39-7	6873 83°14-3	8360 39
22	7-5	66 44-4	894 18-9	2553 59-5	4734 48-5	6905 24-5	8375 38
23	8-2	72 47-0	916 23-5	2587 66 6-3	4772 57-3	6938 34-7	8390 37
24	8-9	78 49-6	938 28-2	2620 13-1	4810 74 6-2	6970 44-9	8405 36
25	9-6	85 52-3	959 32-9	2654 20-0	4848 15-1	7002 55-2	8419 35
26	55°10-4	92 56°55-0	981 60°37-6	2687 66°26-9	4886 74°24-0	7034 84° 5-5	8432 34
27	11-2	99 57-7	1004 42-3	2721 33-8	4924 32-9	7065 15-7	8445 33
28	12-1	106 57 0-4	1026 47-1	2755 40-8	4962 41-9	7096 26-0	8458 32
29	13-0	114 3-2	1049 52-0	2789 47-8	5000 50-9	7127 36-4	8471 31
30	13-9	122 6-1	1072 56-8	2823 54-8	5038 75 0-0	7158 46-7	8483 30
31	55°14-8	130 57° 8-9	1096 61° 1-7	2857 67° 1-9	5076 75° 9-0	7188 84°57-0	8495 29
32	15-8	139 11-8	1119 6-7	2892 9-0	5114 18-1	7219 85 7-4	8506 28
33	16-8	147 14-7	1143 11-7	2927 16-1	5152 27-3	7249 17-7	8517 27
34	17-8	157 17-6	1167 16-7	2962 23-3	5190 36-4	7279 28-1	8528 26
35	18-9	166 20-6	1191 21-7	2997 30-5	5228 45-6	7308 38-5	8538 25
36	55°20-0	176 57°23-6	1216 61°26-8	3032 67°37-8	5266 75°54-8	7338 85°48-8	8548 24
37	21-1	185 26-7	1240 31-9	3066 45-0	5303 76 4-0	7367 59-2	8557 23
38	22-2	195 29-8	1265 37-1	3101 52-4	5341 13-3	7395 86 9-6	8566 22
39	23-4	206 32-9	1290 42-3	3137 59-7	5379 22-6	7424 20-0	8575 21
40	24-7	217 36-0	1315 47-5	3173 68 7-1	5416 31-9	7452 30-5	8583 20
41	55°25-9	228 57°39-2	1340 61°52-7	3208 68°14-5	5454 76°41-3	7480 86°40-9	8591 19
42	27-2	239 42-4	1366 58-0	3244 22-0	5491 50-7	7508 51-3	8598 18
43	28-5	250 45-7	1393 62 3-4	3280 29-5	5529 77 0-0	7536 87 1-8	8605 17
44	29-9	262 49-0	1419 8-7	3316 37-0	5566 9-5	7563 12-2	8612 16
45	31-2	274 52-3	1445 14-1	3352 44-6	5603 18-9	7590 22-7	8618 15
46	55°32-6	286 57°55-6	1471 62°19-6	3388 68°52-2	5641 77°28-4	7617 87°33-1	8624 14
47	34-1	299 59-0	1498 25-1	3424 59-8	5678 37-9	7644 43-6	8629 13
48	35-6	311 58 2-4	1525 30-6	3460 69 7-5	5715 47-4	7670 54-1	8634 12
49	37-1	324 5-9	1552 36-1	3497 15-2	5752 57-0	7696 88 4-5	8639 11
50	38-6	337 9-4	1579 41-7	3533 23-0	5789 78 6-6	7722 15-0	8643 10
51	55°40-2	350 58°12-9	1607 62°47-3	3569 69°30-7	5826 78°16-2	7747 88°25-5	8647 9
52	41-7	365 16-4	1635 53-0	3606 38-5	5862 25-8	7772 36-0	8651 8
53	43-4	378 20-0	1663 58-7	3643 46-4	5899 35-5	7797 46-5	8654 7
54	45-0	393 23-6	1691 63 4-4	3680 54-3	5936 45-1	7821 57-0	8657 6
55	46-7	407 27-3	1719 10-2	3717 70 2-2	5972 54-8	7845 89 7-5	8659 5
56	55°48-4	422 58°31-0	1748 63°16-0	3754 70°10-1	6009 79° 4-6	7869 89°18-0	8660 4
57	50-2	437 34-7	1776 21-8	3791 18-1	6045 14-3	7893 28-5	8661 3
58	52-0	453 38-4	1805 27-7	3828 26-1	6081 24-1	7916 39-0	8662 2
59	53-8	468 42-2	1835 33-6	3865 34-2	6117 33-9	7939 49-5	8663 1
60	55-7	484 46-0	1864 39-5	3902 42-3	6153 43-7	7961 90 0-0	8664 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	55°15·0	0	56°10·5	478	59° 0·2	1840	63°52·2	3849	70°52·2	6064	79°49·3	7842	60
1	15·0	0	12·4	494	4·0	1869	58·2	3886	71 0·3	6100	59·0	7864	59
2	15·1	1	14·3	510	7·9	1898	64 4·2	3923	8·4	6135	80 8·8	7886	58
3	15·1	1	16·2	526	11·8	1927	10·2	3960	16·5	6170	18·6	7907	57
4	15·2	2	18·2	543	15·8	1957	16·2	3997	24·7	6204	28·4	7928	56
5	15·4	3	20·2	560	19·8	1987	22·3	4034	32·8	6239	38·2	7949	55
6	55°15·6	5	56°22·2	577	59°23·8	2017	64°28·4	4071	71°41·1	6274	80°48·1	7969	54
7	15·8	7	24·2	594	27·8	2047	34·6	4108	49·3	6308	57·9	7989	53
8	16·0	9	26·3	612	31·9	2077	40·8	4145	57·6	6342	81 7·8	8009	52
9	16·2	11	28·5	630	36·0	2108	47·0	4182	72 6·0	6376	17·7	8028	51
10	16·5	13	30·7	648	40·1	2139	53·3	4220	14·3	6410	27·7	8047	50
11	55°16·8	16	56°32·8	666	59°44·3	2170	64°59·6	4257	72°22·7	6444	81°37·6	8066	49
12	17·2	19	35·1	684	48·5	2201	65 6·0	4294	31·1	6478	47·6	8084	48
13	17·6	23	37·3	703	52·8	2232	12·4	4332	39·6	6511	57·5	8102	47
14	18·0	26	39·6	722	57·1	2263	18·8	4369	48·1	6545	82 7·5	8120	46
15	18·4	30	41·9	741	60 1·4	2295	25·2	4406	56·6	6578	17·6	8137	45
16	55°18·9	34	56°44·3	761	60° 5·7	2326	65°31·7	4444	73° 5·1	6611	82°27·6	8154	44
17	19·4	39	46·7	781	10·1	2358	38·2	4481	13·7	6644	37·6	8171	43
18	20·0	43	49·1	801	14·6	2390	44·8	4518	22·3	6676	47·7	8187	42
19	20·5	48	51·5	821	19·0	2422	51·4	4556	30·9	6709	57·8	8203	41
20	21·1	54	54·0	841	23·5	2455	58·0	4593	39·6	6741	83 7·9	8219	40
21	55°21·8	59	56°56·5	862	60°28·0	2487	66° 4·7	4631	73°48·3	6773	83°18·0	8234	39
22	22·4	65	59·1	883	32·6	2520	11·4	4668	57·0	6805	28·1	8249	38
23	23·1	71	57 1·7	904	37·2	2552	18·1	4706	74 5·8	6836	38·2	8263	37
24	23·8	77	4·3	925	41·8	2585	24·9	4743	14·6	6868	48·4	8277	36
25	24·6	84	6·9	947	46·5	2619	31·7	4781	23·4	6899	58·5	8290	35
26	55°25·4	91	57° 9·6	969	60°51·2	2652	66°38·6	4818	74°32·2	6930	84° 8·7	8304	34
27	26·2	97	12·3	991	55·9	2685	45·4	4856	41·1	6961	18·9	8317	33
28	27·0	105	15·0	1013	61 0·7	2718	52·4	4893	50·0	6992	29·1	8330	32
29	27·9	112	17·8	1036	5·5	2752	59·3	4930	59·0	7022	39·3	8342	31
30	28·8	121	20·6	1059	10·4	2786	67 6·3	4968	75 7·9	7053	49·6	8354	30
31	55°29·7	128	57°23·5	1082	61°15·3	2820	67°13·3	5005	75°16·9	7083	84°59·8	8366	29
32	30·7	137	26·3	1105	20·2	2854	20·4	5043	26·0	7112	85 10·1	8377	28
33	31·7	146	29·2	1128	25·1	2888	27·5	5080	35·0	7142	20·3	8388	27
34	32·7	155	32·2	1152	30·1	2922	34·6	5117	44·1	7171	30·6	8398	26
35	33·8	164	35·1	1176	35·1	2956	41·8	5154	53·2	7200	40·9	8408	25
36	55°34·9	173	57°38·1	1200	61°40·2	2991	67°49·0	5192	76° 2·3	7229	85°51·2	8418	24
37	36·0	183	41·2	1224	45·3	3026	56·2	5229	11·5	7258	86 1·4	8427	23
38	37·2	193	44·2	1249	50·4	3060	68 3·5	5266	20·7	7286	11·7	8436	22
39	38·4	203	47·3	1273	55·6	3095	10·8	5303	29·9	7314	22·1	8444	21
40	39·6	214	50·5	1298	62 0·8	3130	18·1	5340	39·2	7342	32·4	8452	20
41	55°40·8	224	57°53·6	1323	62° 6·0	3165	68°25·5	5377	76°48·4	7370	86°42·7	8460	19
42	42·1	236	56·8	1349	11·3	3200	32·9	5414	57·7	7397	53·0	8467	18
43	43·4	247	58 0·1	1374	16·6	3236	40·4	5451	77 7·0	7424	87 3·3	8474	17
44	44·8	258	3·3	1400	21·9	3271	47·8	5487	16·3	7451	13·7	8481	16
45	46·1	270	6·7	1426	27·3	3306	55·4	5524	25·7	7478	24·1	8487	15
46	55°47·5	282	58°10·0	1452	62°32·7	3342	69° 2·9	5561	77°35·2	7504	87°34·5	8492	14
47	49·0	295	13·4	1478	38·1	3378	10·5	5597	44·6	7530	44·9	8498	13
48	50·4	307	16·7	1505	43·6	3413	18·1	5634	54·0	7556	55·2	8503	12
49	51·9	320	20·2	1532	49·2	3449	25·8	5670	78 3·5	7581	88 5·6	8507	11
50	53·5	333	23·7	1559	54·7	3485	33·5	5706	13·0	7606	16·0	8511	10
51	55°55·0	346	58°27·2	1586	63° 0·3	3521	69°41·2	5743	78°22·5	7631	88°26·4	8515	9
52	56·6	360	30·7	1613	5·9	3557	49·0	5779	32·1	7656	36·8	8519	8
53	58·2	374	34·3	1641	11·6	3594	56·7	5815	41·7	7680	47·2	8522	7
54	59·9	388	37·9	1669	17·3	3630	70 4·5	5851	51·2	7704	57·6	8524	6
55	56 1·6	402	41·5	1697	23·0	3666	12·4	5887	79 0·9	7728	89 8·0	8526	5
56	56° 3·3	417	58°45·2	1725	63°28·8	3703	70°20·3	5923	79°10·5	7752	89°18·4	8528	4
57	5·0	432	48·9	1753	34·6	3740	28·2	5958	20·2	7775	28·8	8530	3
58	6·8	447	52·6	1782	40·4	3776	36·2	5994	29·8	7798	39·2	8531	2
59	8·6	462	56·4	1811	46·3	3813	44·2	6029	39·5	7820	49·6	8531	1
60	10·5	478	59 0·2	1840	52·2	3849	52·2	6064	49·3	7842	90 0·0	8532	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H						
0	55°30.0	0 56°25.3	472	59°14.3	1815	64° 4.9	3796	71° 2.1	5977	79°54.8	7724	60
1	30.0	0 27.2	488	18.1	1844	10.8	3833	10.1	6011	80 4.5	7746	59
2	30.1	1 29.1	503	22.0	1873	16.7	3869	18.1	6046	14.2	7767	58
3	30.1	1 31.0	519	25.9	1902	22.7	3905	26.2	6080	23.9	7788	57
4	30.2	2 32.9	536	29.8	1932	28.7	3941	34.3	6114	33.6	7808	56
5	30.4	3 34.9	552	33.8	1961	34.8	3978	42.4	6148	43.3	7829	55
6	55°30.5	5 56°37.0	569	59°37.8	1991	64°40.9	4015	71°50.6	6182	80°53.1	7849	54
7	30.8	6 39.0	586	41.8	2020	47.0	4051	58.8	6216	81 2.9	7868	53
8	31.0	8 41.1	604	45.9	2050	53.2	4088	72 7.0	6250	12.7	7888	52
9	31.2	11 43.2	621	50.0	2080	59.4	4125	15.3	6284	22.5	7907	51
10	31.5	13 45.4	639	54.1	2110	65 5.6	4161	23.6	6317	32.3	7926	50
11	55°31.9	16 56°47.6	657	59°58.2	2141	65°11.9	4198	72°31.9	6350	81°42.2	7944	49
12	32.2	19 49.8	676	60 2.4	2171	18.2	4235	40.3	6383	52.1	7961	48
13	32.6	22 52.0	694	6.7	2202	24.5	4272	48.7	6416	82 2.0	7979	47
14	33.0	26 54.3	713	10.9	2233	30.9	4309	57.1	6449	11.9	7997	46
15	33.4	30 56.6	732	15.2	2264	37.3	4345	73 5.5	6482	21.8	8014	45
16	55°33.9	34 56°59.0	751	60°19.6	2296	65°43.8	4382	73°14.0	6514	82°31.7	8031	44
17	34.4	38 57 1.3	771	24.0	2327	50.3	4419	22.5	6546	41.7	8047	43
18	35.0	43 3.7	790	28.4	2358	56.8	4455	31.0	6578	51.7	8063	42
19	35.5	48 6.2	810	32.8	2390	66 3.3	4492	39.6	6610	83 1.7	8078	41
20	36.1	53 8.7	831	37.3	2422	9.9	4529	48.2	6642	11.7	8094	40
21	55°36.7	58 57°11.2	851	60°41.8	2454	66°16.5	4566	73°56.8	6673	83°21.7	8109	39
22	37.4	64 13.7	871	46.3	2486	23.2	4603	74 5.5	6705	31.7	8123	38
23	38.1	70 16.3	893	50.9	2518	29.9	4640	14.2	6736	41.8	8137	37
24	38.8	76 18.9	914	55.5	2551	36.6	4677	22.9	6767	51.8	8151	36
25	39.6	83 21.5	935	61 0.1	2583	43.4	4714	31.7	6797	84 1.9	8165	35
26	55°40.4	89 57°24.2	956	61° 4.8	2616	66°50.2	4751	74°40.5	6828	84°12.0	8178	34
27	41.2	96 26.9	978	9.5	2649	57.0	4787	49.3	6858	22.1	8190	33
28	42.0	103 29.6	1000	14.3	2682	67 3.9	4824	58.1	6889	32.2	8203	32
29	42.9	111 32.4	1022	19.1	2715	10.8	4861	75 7.0	6919	42.3	8215	31
30	43.8	119 35.2	1045	23.9	2749	17.8	4898	15.9	6949	52.4	8227	30
31	55°44.7	127 57°38.0	1068	61°28.7	2782	67°24.8	4935	75°24.8	6978	85° 2.6	8238	29
32	45.7	135 40.8	1091	33.6	2815	31.8	4971	33.7	7007	12.7	8249	28
33	46.7	144 43.7	1114	38.6	2849	38.8	5008	42.7	7036	22.9	8259	27
34	47.7	153 46.7	1137	43.5	2883	45.9	5045	51.7	7065	33.1	8269	26
35	48.7	162 49.6	1161	48.5	2917	53.0	5081	76 0.7	7093	43.3	8279	25
36	55°49.8	171 57°52.6	1185	61°53.6	2951	68° 0.2	5118	76° 9.8	7122	85°53.5	8289	24
37	51.0	181 55.6	1208	58.6	2985	7.3	5155	18.9	7150	86 3.7	8298	23
38	52.1	191 58.7	1232	62 3.7	3019	14.6	5191	28.0	7178	13.9	8306	22
39	53.3	200 58 1.8	1257	8.8	3053	21.8	5228	37.1	7205	24.1	8315	21
40	54.5	211 4.9	1281	14.0	3088	29.1	5264	46.3	7233	34.3	8323	20
41	55°55.7	222 58° 8.1	1306	62°19.2	3122	68°36.4	5300	76°55.5	7260	86°44.5	8330	19
42	57.0	233 11.2	1331	24.5	3157	43.8	5337	77 4.7	7287	54.8	8337	18
43	58.3	244 14.5	1356	29.8	3192	51.2	5373	14.0	7313	87 5.0	8344	17
44	59.7	255 17.7	1382	35.1	3227	58.6	5409	23.2	7340	15.3	8351	16
45	56 1.0	267 21.0	1408	40.4	3262	69 6.1	5445	32.5	7366	25.5	8357	15
46	56° 2.4	279 58°24.3	1434	62°45.8	3297	69°13.6	5481	77°41.9	7391	87°35.8	8362	14
47	3.8	291 27.7	1460	51.2	3333	21.1	5517	51.2	7417	46.1	8368	13
48	5.3	303 31.1	1486	56.7	3368	28.7	5553	78 0.6	7442	56.4	8373	12
49	6.8	316 34.5	1512	63 2.2	3403	36.3	5589	10.0	7467	88 6.7	8377	11
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53	13.1	369 48.5	1619	24.5	3545	70 7.0	5731	47.8	7565	47.9	8391	7
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55	16.4	397 55.7	1675	35.8	3616	22.6	5802	79 6.8	7612	89 8.5	8396	5
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57	19.9	426 59 3.1	1730	47.3	3688	38.2	5872	26.0	7658	29.1	8399	3
58	21.6	441 6.8	1758	53.1	3724	46.2	5907	35.6	7680	39.4	8400	2
59	23.4	456 10.5	1786	59.0	3760	54.1	5942	45.2	7702	49.7	8401	1
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	11 H	10 H	9 H	8 H	7 H	6 H	m					

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	55°45-0	0 56°40-1	466 59°28-4	1791 64°17-5	3744 71°12-0	5890 80° 0-3	7607 60
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3	45-1	1 45-8	512 40-0	1877 35-2	3851 35-9	5992 29-1	7670 57
4	45-2	2 47-7	528 43-9	1906 41-2	3887 43-9	6025 38-8	7690 56
5	45-4	3 49-7	545 47-8	1935 47-2	3923 52-0	6059 48-4	7710 55
6	55°45-5	5 56°51-7	562 59°51-8	1964 64°53-3	3959 72° 0-1	6092 80°58-1	7729 54
7	45-7	6 53-8	579 55-8	1993 59-4	3995 8-2	6125 81 7-8	7748 53
8	46-0	8 55-8	596 59-8	2023 65 5-5	4031 16-4	6158 17-5	7767 52
9	46-2	11 58-0	613 60 3-9	2053 11-7	4067 24-6	6191 27-3	7786 51
10	46-5	13 57 0-1	631 8-0	2082 17-9	4103 32-8	6224 37-0	7804 50
11	55°46-8	16 57° 2-3	649 60°12-2	2112 65°24-1	4139 72°41-1	6257 81°46-8	7822 49
12	47-2	19 4-5	667 16-3	2143 30-4	4175 49-4	6289 56-6	7840 48
13	47-6	22 6-7	685 20-5	2173 36-7	4212 57-7	6322 82 6-4	7857 47
14	48-0	26 9-0	704 24-8	2203 43-0	4248 73 6-0	6354 16-2	7874 46
15	48-4	29 11-3	723 29-1	2234 49-4	4284 14-4	6386 26-0	7891 45
16	55°48-9	34 57°13-6	742 60°33-4	2265 65°55-8	4320 73°22-9	6418 82°35-9	7907 44
17	49-4	38 16-0	761 37-7	2296 66 2-2	4357 31-3	6450 45-8	7923 43
18	49-9	43 18-4	780 42-1	2327 8-7	4393 39-8	6481 55-6	7939 42
19	50-5	47 20-8	800 46-5	2358 15-2	4429 48-3	6512 83 5-5	7955 41
20	51-1	52 23-3	820 51-0	2390 21-8	4465 56-8	6544 15-4	7970 40
21	55°51-7	58 57°25-8	840 60°55-5	2421 66°28-4	4502 74° 5-4	6575 83°25-4	7984 39
22	52-4	63 28-3	860 61 0-0	2453 35-0	4538 14-0	6605 35-3	7998 38
23	53-1	69 30-9	881 8-1	2485 41-6	4574 22-6	6636 45-2	8012 37
24	53-8	75 33-5	902 9-1	2517 48-3	4611 31-2	6666 55-2	8026 36
25	54-5	82 36-1	923 13-7	2549 55-0	4647 39-9	6697 84 5-2	8039 35
26	55°55-3	88 57°38-7	944 61°18-4	2581 67° 1-8	4683 74°48-6	6727 84°15-2	8052 34
27	56-1	95 41-4	966 23-1	2613 8-6	4720 57-4	6756 25-2	8065 33
28	57-0	102 44-2	987 27-8	2646 15-4	4756 75 6-1	6786 35-2	8077 32
29	57-8	110 45-9	1009 32-6	2679 22-3	4792 14-9	6815 45-3	8089 31
30	58-7	117 49-7	1031 37-4	2711 29-2	4828 23-7	6845 55-3	8100 30
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32	56 0-6	134 55-4	1076 47-1	2777 43-1	4901 41-5	6902 15-4	8122 28
33	1-6	142 58-2	1099 52-0	2810 50-1	4937 50-4	6931 25-5	8132 27
34	2-6	151 58 1-1	1122 56-9	2844 57-1	4973 59-4	6959 35-5	8142 26
35	3-7	160 4-1	1145 62 1-9	2877 68 4-2	5009 76 8-3	6987 45-6	8152 25
36	56° 4-8	169 58° 7-1	1169 62° 6-9	2911 68°11-3	5045 76°17-3	7015 85°55-7	8161 24
37	5-9	178 10-1	1192 11-9	2944 18-4	5081 26-3	7043 86 5-8	8170 23
38	7-0	188 13-1	1216 17-0	2978 25-6	5117 35-3	7070 16-0	8179 22
39	8-2	198 16-2	1241 22-1	3012 32-8	5153 44-4	7097 26-1	8187 21
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43	13-2	241 28-8	1339 42-9	3148 69 2-0	5296 20-9	7203 87 6-7	8216 17
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53	27-9	364 59 2-7	1598 37-3	3496 17-3	5648 53-9	7451 48-5	8262 7
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56	56°33-0	406 59°13-6	1681 63°54-3	3602 70°40-5	5753 79°22-2	7519 89°19-1	8268 4
57	34-7	420 17-2	1709 64 0-0	3637 48-3	5787 31-7	7542 29-3	8269 3
58	36-5	436 20-9	1736 5-8	3673 56-2	5821 41-2	7564 39-6	8270 2
59	38-3	451 24-7	1763 11-6	3708 71 4-1	5856 50-8	7585 49-8	8271 1
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	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	56° 0-0	0 56° 54-9	460 59° 42-5	1768 64° 30-1	3692 71° 21-8	5803 80° 5-8	7491 60
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4	0-2	2 2-5	522 57-9	1880 53-7	3833 53-5	5936 43-9	7572 56
5	0-4	3 4-5	538 60 1-8	1909 59-7	3868 72 1-5	5969 53-5	7591 55
6	56° 0-5	5 57° 6-5	555 60° 5-8	1938 65° 5-7	3903 72° 9-6	6002 81° 3-1	7610 54
7	0-7	6 8-5	572 9-8	1967 11-7	3939 17-6	6035 12-7	7629 53
8	1-0	8 10-6	588 13-8	1996 17-8	3974 25-7	6067 22-3	7648 52
9	1-2	10 12-7	605 17-8	2025 23-9	4010 33-9	6100 32-0	7667 51
10	1-5	13 14-8	623 21-9	2054 30-1	4045 42-0	6132 41-6	7685 50
11	56° 1-8	16 57° 17-0	640 60° 26-1	2084 65° 36-3	4081 72° 50-2	6164 81° 51-3	7702 49
12	2-2	18 19-2	658 30-2	2114 42-5	4117 58-5	6196 82 1-0	7720 48
13	2-6	22 21-4	676 34-4	2144 48-8	4152 73 6-7	6228 10-7	7737 47
14	3-0	25 23-7	694 38-6	2174 55-1	4188 15-0	6260 20-5	7754 46
15	3-4	29 26-0	713 42-9	2204 66 1-4	4224 23-3	6291 30-2	7770 45
16	56° 3-9	33 57° 28-3	732 60° 47-2	2234 66° 7-8	4260 73° 31-7	6322 82° 40-0	7786 44
17	4-4	37 30-7	751 51-5	2265 14-2	4295 40-0	6354 49-7	7802 43
18	4-9	42 33-1	770 55-9	2296 20-6	4331 48-5	6385 59-5	7817 42
19	5-5	46 35-5	789 61 0-3	2327 27-1	4367 56-9	6416 83 9-3	7832 41
20	6-1	51 37-9	809 4-7	2357 33-6	4402 74 5-4	6447 19-2	7846 40
21	56° 6-7	57 57° 40-4	830 61° 9-2	2388 66° 40-1	4438 74° 13-9	6477 83° 29-0	7861 39
22	7-4	62 42-9	850 13-7	2420 46-7	4473 22-4	6507 38-9	7875 38
23	8-0	68 45-5	870 18-2	2451 53-3	4509 30-9	6537 48-7	7888 37
24	8-7	74 48-1	890 22-8	2482 67 0-0	4545 39-5	6567 58-6	7902 36
25	9-5	81 50-7	911 27-4	2514 6-7	4581 48-1	6596 84 8-5	7915 35
26	56° 10-3	87 57° 53-3	932 61° 32-0	2546 67° 13-4	4617 74° 56-8	6626 84° 18-4	7928 34
27	11-1	94 56-0	953 36-6	2578 20-1	4652 75 5-4	6655 28-3	7940 33
28	11-9	101 58-7	974 41-3	2610 26-9	4688 14-1	6684 38-2	7952 32
29	12-8	109 58 1-4	996 46-1	2642 33-7	4724 22-8	6713 48-2	7964 31
30	13-7	116 4-2	1018 50-9	2674 40-6	4759 31-6	6742 58-1	7975 30
31	56° 14-6	123 58° 7-0	1040 61° 55-7	2707 67° 47-5	4795 75° 40-4	6770 85° 8-1	7986 29
32	15-6	132 9-9	1062 62 0-5	2739 54-4	4830 49-2	6799 18-0	7996 28
33	16-6	140 12-7	1084 5-4	2772 68 1-3	4866 58-0	6827 28-0	8006 27
34	17-6	149 15-8	1107 10-3	2805 8-3	4901 76 6-9	6855 38-0	8016 26
35	18-6	158 18-6	1130 15-2	2838 15-3	4937 15-8	6882 48-0	8026 25
36	56° 19-7	167 58° 21-5	1153 62° 20-2	2871 68° 22-4	4973 76° 24-7	6910 85° 58-0	8035 24
37	20-8	176 24-5	1177 25-2	2904 29-5	5008 33-6	6937 86 8-0	8044 23
38	22-0	186 27-6	1201 30-3	2937 36-6	5044 42-6	6964 18-1	8052 22
39	23-1	196 30-6	1224 35-4	2970 43-8	5079 51-6	6990 28-1	8060 21
40	24-3	205 33-7	1248 40-5	3004 51-0	5114 77 0-6	7017 38-1	8068 20
41	56° 25-6	216 58 36-8	1272 62° 45-6	3038 68° 58-2	5149 77° 9-6	7043 86° 48-2	8075 19
42	26-8	226 40-0	1297 50-8	3071 69 5-5	5184 18-7	7069 58-2	8082 18
43	28-1	237 43-2	1321 56-0	3105 12-8	5219 27-8	7094 87 8-3	8088 17
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55	46-1	387 24-1	1631 64 1-4	3517 42-9	5634 18-7	7382 89 9-4	8138 5
56	56° 47-8	401 59° 27-7	1658 64° 7-0	3552 70° 50-6	5668 79° 28-1	7405 89° 19-5	8139 4
57	49-5	415 31-4	1684 12-7	3587 58-3	5702 37-5	7427 29-6	8141 3
58	51-3	430 35-1	1712 18-5	3622 71 6-1	5736 46-9	7448 39-8	8142 2
59	53-1	445 38-8	1740 24-3	3657 13-9	5770 56-4	7470 49-9	8143 1
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	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H		1 H		2 H		3 H		4 H		5 H		
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3	15-1	1	15-3	500	8-0	1827	65 0-2	3744	55-1	5816	39-6	7436	57
4	15-2	2	17-2	515	11-9	1855	6-1	3779	72 3-0	5848	49-1	7455	56
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6	56°15-5	5	57°21-2	547	60°19-7	1912	65°18-0	3848	72°19-0	5913	81° 8-1	7493	54
7	15-7	6	23-3	564	23-7	1940	24-0	3883	27-0	5945	17-6	7512	53
8	16-0	8	25-3	581	27-7	1969	30-1	3918	35-0	5977	27-1	7530	52
9	16-2	10	27-4	598	31-8	1998	36-2	3953	43-1	6009	36-7	7548	51
10	16-5	13	29-6	615	35-8	2027	42-3	3988	51-2	6041	46-3	7566	50
11	56°16-8	15	57°31-7	632	60°39-9	2056	65°48-5	4023	72°59-3	6073	81°55-9	7583	49
12	17-2	18	33-9	650	44-1	2085	54-6	4058	73 7-5	6104	82 5-5	7600	48
13	17-6	21	36-1	668	48-2	2115	66 0-8	4093	15-7	6135	15-1	7617	47
14	18-0	25	38-4	686	52-4	2144	7-1	4128	23-9	6166	24-7	7633	46
15	18-4	29	40-7	704	56-7	2174	13-4	4163	32-2	6197	34-4	7649	45
16	56°18-9	33	57°43-0	722	61° 1-0	2204	66°19-7	4198	73°40-4	6228	82°44-1	7665	44
17	19-4	37	45-3	741	5-3	2234	26-1	4234	48-7	6259	53-8	7681	43
18	19-9	41	47-7	760	9-6	2264	32-5	4269	57-1	6289	83 3-5	7696	42
19	20-5	46	50-1	779	14-0	2295	38-9	4304	74 5-5	6319	13-2	7711	41
20	21-1	51	52-6	798	18-4	2325	45-4	4339	13-9	6349	22-9	7725	40
21	56°21-7	56	57°55-0	818	61°22-8	2356	66°51-9	4374	74°22-3	6379	83°32-6	7739	39
22	22-3	62	57-5	838	27-3	2387	58-4	4410	30-8	6409	42-4	7753	38
23	23-0	67	58 0-0	858	31-8	2418	67 5-0	4445	39-2	6439	52-2	7766	37
24	23-7	73	2-6	878	36-3	2449	11-6	4480	47-7	6468	84 2-0	7779	36
25	24-5	80	5-3	899	40-9	2480	18-2	4515	56-3	6497	11-8	7792	35
26	56°25-2	86	58° 7-9	920	61°45-5	2511	67°24-9	4550	75° 4-9	6526	84°21-6	7805	34
27	26-0	92	10-5	941	50-2	2543	31-6	4585	13-5	6555	31-4	7817	33
28	26-9	100	13-2	962	54-9	2574	38-3	4620	22-1	6583	41-2	7828	32
29	27-7	107	16-0	983	59-6	2606	45-1	4656	30-7	6612	51-1	7840	31
30	28-6	114	18-7	1004	62 4-3	2638	51-9	4691	39-4	6640	85 0-9	7851	30
31	56°29-5	122	58°21-5	1026	62° 9-1	2670	67°58-8	4726	75°48-1	6668	85°10-8	7862	29
32	30-5	130	24-4	1048	13-9	2702	68 5-6	4761	56-8	6696	20-7	7872	28
33	31-5	138	27-2	1070	18-8	2734	12-5	4796	76 5-6	6723	30-6	7882	27
34	32-5	147	30-1	1093	23-6	2766	19-5	4831	14-4	6751	40-5	7891	26
35	33-5	156	33-0	1115	28-6	2799	26-5	4865	23-2	6778	50-4	7901	25
36	56°34-6	165	58°36-0	1138	62°33-5	2831	68°33-5	4900	76°32-0	6805	86° 0-3	7910	24
37	35-7	173	39-0	1161	38-5	2864	40-5	4935	40-9	6831	10-2	7918	23
38	36-9	183	42-0	1184	43-5	2897	47-6	4970	49-8	6858	20-1	7926	22
39	38-0	193	45-0	1208	48-6	2930	54-7	5005	58-7	6884	30-1	7934	21
40	39-3	203	48-1	1231	53-7	2962	69 1-8	5039	77 7-6	6910	40-0	7942	20
41	56°40-5	213	58°51-2	1255	62°58-8	2995	69° 9-0	5074	77°16-6	6936	86°50-0	7949	19
42	41-7	224	54-4	1279	63 3-9	3029	16-2	5109	25-6	6961	59-9	7956	18
43	43-0	234	57-6	1303	9-1	3062	23-4	5143	34-6	6986	87 9-9	7962	17
44	44-3	245	59 0-8	1328	14-3	3095	30-7	5178	43-6	7011	19-9	7968	16
45	45-7	256	4-0	1352	19-6	3129	38-0	5212	52-7	7036	29-8	7974	15
46	56°47-1	268	59° 7-3	1377	63°24-9	3162	69°45-4	5246	78° 1-8	7061	87°39-8	7979	14
47	48-5	280	10-6	1402	30-2	3196	52-8	5280	10-9	7085	49-8	7984	13
48	49-9	292	13-9	1427	35-6	3230	70 0-2	5315	20-0	7109	59-8	7989	12
49	51-4	304	17-3	1453	41-0	3263	7-6	5349	29-2	7132	88 9-8	7993	11
50	52-9	316	20-7	1478	46-4	3297	15-1	5383	38-3	7156	19-8	7997	10
51	56°54-5	329	59°24-2	1504	63°51-9	3331	70°22-6	5417	78°47-5	7179	88°29-8	8001	9
52	56-0	342	27-6	1530	57-4	3365	30-1	5451	56-8	7202	39-8	8004	8
53	57-6	355	31-2	1556	64 2-9	3399	37-7	5484	79 6-0	7225	49-8	8006	7
54	59-2	368	34-7	1582	8-5	3434	45-3	5518	15-3	7247	59-8	8009	6
55	57 0-9	382	38-3	1609	14-1	3468	52-9	5551	24-6	7269	89 9-8	8011	5
56	57° 2-6	396	59°41-9	1635	64°19-7	3502	71° 0-6	5585	79°33-9	7291	89°19-9	8012	4
57	4-3	410	45-5	1662	25-4	3536	8-3	5618	43-2	7313	30-0	8014	3
58	6-1	424	49-2	1689	31-1	3571	16-0	5651	52-5	7334	40-0	8015	2
59	7-9	439	52-9	1716	36-9	3605	23-8	5685	80 1-9	7355	50-0	8015	1
60	9-7	454	56-6	1744	42-6	3640	31-6	5718	11-3	7375	90 0-0	8015	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	56°30'0	0	57°24'5	448	60°10'7	1720	64°55'2	3588	71°41'3	5632	80°16'7	7261	60
1	30'0	0	26'3	463	14'4	1747	65 0'9	3623	49'1	5665	26'1	7281	59
2	30'1	0	28'2	478	18'2	1774	6'7	3657	56'9	5697	35'4	7301	58
3	30'1	1	30'1	493	22'0	1802	12'6	3691	72 4'7	5729	44'8	7320	57
4	30'2	2	32'0	508	25'9	1829	18'5	3725	12'5	5761	54'2	7339	56
5	30'4	3	34'0	524	29'8	1857	24'4	3759	20'4	5793	81 3'6	7358	55
6	56°30'5	5	57°36'0	540	60°33'7	1885	65°30'3	3793	72°28'4	5825	81°13'0	7377	54
7	30'7	6	38'0	556	37'7	1913	36'3	3828	36'3	5856	22'4	7395	53
8	31'0	8	40'1	573	41'7	1942	42'3	3862	44'3	5887	31'9	7413	52
9	31'2	10	42'2	589	45'7	1971	48'4	3897	52'3	5919	41'4	7431	51
10	31'5	13	44'3	606	49'7	1999	54'5	3931	73 0'3	5950	50'9	7448	50
11	56°31'8	15	57°46'4	623	60°53'8	2028	66° 0'6	3966	73° 8'4	5981	82° 0'4	7465	49
12	32'2	18	48'6	641	57'9	2057	6'7	4000	16'5	6012	9'9	7482	48
13	32'6	21	50'8	658	61 2'1	2086	12'9	4034	24'6	6043	19'4	7498	47
14	33'0	25	53'1	676	6'2	2115	19'1	4069	32'8	6073	29'0	7514	46
15	33'4	28	55'3	694	10'5	2144	25'4	4104	41'0	6104	38'5	7530	45
16	56°33'9	32	57°57'6	712	61°14'7	2173	66°31'7	4138	73°49'2	6134	82°48'1	7546	44
17	34'4	36	58 0'0	731	19'0	2203	38'0	4173	57'4	6164	57'7	7561	43
18	34'9	41	2'3	750	23'3	2233	44'3	4207	74 5'7	6194	83 7'3	7575	42
19	35'4	45	4'7	769	27'7	2263	50'7	4242	14'0	6224	17'0	7590	41
20	36'0	50	7'2	788	32'1	2293	57'2	4276	22'3	6254	26'6	7604	40
21	56°36'6	55	58° 9'6	807	61°36'5	2323	67° 3'6	4310	74°30'7	6283	83°36'3	7618	39
22	37'3	61	12'1	827	40'9	2354	10'1	4345	39'1	6312	45'9	7632	38
23	38'0	66	14'7	847	45'4	2384	16'6	4380	47'5	6341	55'6	7645	37
24	38'7	72	17'2	867	49'9	2415	23'2	4415	55'9	6370	84 5'3	7657	36
25	39'4	79	19'8	887	54'5	2446	29'8	4450	75 4'4	6399	15'0	7670	35
26	56°40'2	85	58°22'4	908	61°59'1	2477	67°36'4	4484	75°12'9	6427	84°24'7	7682	34
27	41'0	91	25'1	928	62 3'7	2508	43'1	4519	21'4	6455	34'5	7694	33
28	41'8	98	27'8	949	8'3	2539	49'8	4553	30'0	6483	44'2	7705	32
29	42'7	106	30'5	970	13'0	2570	56'5	4588	38'6	6511	54'0	7717	31
30	43'6	113	33'2	991	17'7	2601	68 3'2	4623	47'2	6539	85 3'7	7728	30
31	56°44'5	121	58°36'0	1012	62°22'5	2633	68°10'0	4657	75°55'8	6567	85°13'5	7738	29
32	45'4	128	38'8	1034	27'3	2664	16'9	4692	76 4'5	6594	23'3	7749	28
33	46'4	137	41'7	1056	32'1	2696	23'7	4726	13'2	6621	33'1	7758	27
34	47'4	145	44'6	1078	37'0	2728	30'6	4760	21'9	6648	42'9	7768	26
35	48'5	154	47'5	1101	41'9	2760	37'5	4795	30'6	6674	52'7	7777	25
36	56°49'6	162	58°50'4	1123	62°46'8	2792	68°44'5	4829	76°39'4	6701	86° 2'5	7785	24
37	50'7	171	53'4	1145	51'7	2824	51'5	4863	48'2	6727	12'4	7794	23
38	51'8	181	56'4	1168	56'7	2856	58'5	4898	57'0	6753	22'2	7802	22
39	52'9	191	59'4	1192	63 1'7	2889	69 5'6	4932	77 5'8	6779	32'0	7810	21
40	54'1	200	59 2'5	1215	6'8	2921	12'7	4966	14'7	6804	41'9	7817	20
41	56°55'4	210	59° 5'6	1238	63°11'9	2954	69°19'8	5000	77°23'6	6829	86°51'8	7824	19
42	56'6	220	8'7	1262	17'0	2986	27'0	5034	32'5	6854	87 1'6	7831	18
43	57'9	232	11'9	1286	22'2	3019	34'1	5068	41'4	6879	11'5	7837	17
44	59'2	242	15'1	1310	27'4	3052	41'4	5101	50'4	6903	21'4	7843	16
45	57 0'6	253	18'3	1334	32'6	3085	48'6	5135	59'3	6928	31'3	7849	15
46	57° 2'0	264	59°21'6	1359	63°37'9	3118	69°55'9	5169	78° 8'3	6952	87°41'2	7855	14
47	3'4	276	24'9	1383	43'2	3151	70 3'2	5203	17'4	6976	51'1	7859	13
48	4'8	288	28'2	1408	48'5	3184	10'6	5236	26'4	6999	88 1'0	7863	12
49	6'3	300	31'6	1433	53'9	3217	18'0	5270	35'5	7023	10'9	7867	11
50	7'8	312	35'0	1458	59'3	3251	25'4	5304	44'6	7046	20'8	7871	10
51	57° 9'3	324	59°38'4	1484	64° 4'7	3284	70°32'8	5337	78°53'7	7069	88°30'7	7875	9
52	10'9	338	41'9	1509	10'2	3318	40'3	5370	79 2'9	7091	40'6	7878	8
53	12'5	350	45'4	1535	15'7	3352	47'8	5403	12'0	7113	50'5	7880	7
54	14'1	363	48'9	1561	21'2	3385	55'4	5436	21'2	7135	89 0'4	7883	6
55	15'7	376	52'4	1587	26'8	3419	71 2'9	5469	30'4	7157	10'4	7885	5
56	57°17'4	391	59°56'0	1613	64°32'4	3453	71°10'6	5502	79°39'6	7179	89°20'3	7887	4
57	19'1	405	59'6	1639	38'0	3487	18'2	5535	48'9	7200	30'2	7888	3
58	20'9	419	60 3'3	1666	43'7	3520	25'9	5567	58'2	7220	40'1	7888	2
59	22'7	433	7'0	1693	49'4	3554	33'6	5600	80 7'4	7241	50'1	7889	1
60	24'5	448	10'7	1720	55'2	3588	41'3	5632	16'7	7261	90 0'0	7889	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	56°45.0	0 57°39.3	442 60°24.8	1697 65° 7.6	3537 71°51.0	5548 80°22.2	7148 60
1	45.0	0 41.1	456 28.5	1723 13.4	3571 58.7	5580 31.4	7168 59
2	45.1	0 43.0	471 32.2	1750 19.2	3604 72 6.5	5611 40.7	7187 58
3	45.1	1 44.9	486 36.0	1777 25.0	3638 14.2	5643 49.9	7206 57
4	45.2	2 46.8	502 39.9	1805 30.8	3672 22.0	5675 59.2	7225 56
5	45.4	3 48.7	517 43.8	1832 36.7	3705 29.8	5706 81 8.6	7244 55
6	56°45.5	4 57°50.7	533 60°47.7	1860 65°42.6	3739 72°37.7	5737 81°17.9	7262 54
7	45.7	6 52.7	549 51.6	1887 48.5	3773 45.6	5768 27.2	7280 53
8	46.0	8 54.8	565 55.5	1915 54.5	3807 53.5	5799 36.6	7297 52
9	46.2	10 56.9	582 59.5	1943 66 0.5	3841 73 1.4	5830 46.0	7315 51
10	46.5	13 59.0	598 61 3.6	1971 6.6	3874 9.4	5860 55.4	7332 50
11	56°46.8	15 58° 1.1	615 61° 7.6	2000 66°12.7	3908 73°17.4	5891 82° 4.8	7348 49
12	47.2	18 3.3	633 11.7	2028 18.8	3942 25.5	5921 14.3	7365 48
13	47.5	21 5.5	650 15.9	2057 24.9	3976 33.5	5951 23.7	7381 47
14	47.9	24 7.7	667 20.0	2086 31.1	4010 41.6	5981 33.2	7397 46
15	48.4	28 10.0	685 24.2	2115 37.3	4044 49.7	6011 42.7	7412 45
16	56°48.8	32 58°12.3	703 61°28.5	2144 66°43.6	4078 73°57.9	6041 82°52.2	7427 44
17	49.3	36 14.6	721 32.7	2173 49.8	4112 74 6.1	6071 83 1.7	7442 43
18	49.9	40 17.0	740 37.0	2202 56.2	4146 14.3	6100 11.2	7457 42
19	50.4	45 19.4	758 41.3	2232 67 2.5	4180 22.5	612.2 20.7	7471 41
20	51.0	50 21.8	777 45.7	2262 8.9	4214 30.8	6158 30.3	7485 40
21	56°51.6	54 58°24.2	796 61°50.1	2291 67°15.3	4249 74°39.1	6187 83°39.9	7499 39
22	52.3	60 26.7	816 54.5	2321 21.7	4283 47.4	6216 49.5	7512 38
23	52.9	66 29.2	835 59.0	2351 28.2	4317 55.7	6244 59.0	7525 37
24	53.6	71 31.8	855 62 3.5	2381 34.7	4351 75 4.1	6273 84 8.6	7537 36
25	54.4	78 34.4	875 8.0	2412 41.3	4385 12.5	6301 18.2	7550 35
26	56°55.1	84 58°37.0	895 62°12.6	2442 67°47.9	4419 75°20.9	6329 84°27.8	7562 34
27	55.9	90 39.6	915 17.2	2472 54.5	4453 29.4	6357 37.5	7573 33
28	56.8	97 42.3	936 21.8	2503 68 1.1	4487 37.9	6384 47.2	7585 32
29	57.6	104 45.0	957 26.4	2534 7.8	4521 46.4	6412 56.8	7596 31
30	58.5	111 47.7	978 31.2	2565 14.5	4555 54.9	6439 85 6.5	7606 30
31	56°59.4	119 58°50.5	999 62°35.9	2596 68°21.3	4589 76° 3.5	6466 85°16.2	7616 29
32	57 0.4	127 53.3	1020 40.6	2627 28.0	4623 12.1	6493 25.9	7626 28
33	1.4	135 56.2	1042 45.4	2658 34.9	4656 20.7	6519 35.6	7636 27
34	2.4	143 59.0	1064 50.3	2690 41.7	4690 29.3	6546 45.3	7645 26
35	3.4	152 59 1.9	1086 55.1	2721 48.6	4724 38.0	6572 55.0	7654 25
36	57° 4.5	160 59° 4.8	1108 63° 0.0	2753 68°55.5	4758 76°46.7	6598 86° 4.8	7663 24
37	5.6	169 7.8	1130 4.9	2784 69 2.4	4792 55.4	6624 14.5	7671 23
38	6.7	179 10.8	1153 9.9	2816 9.4	4825 77 4.1	6649 24.3	7679 22
39	7.9	188 13.8	1176 14.9	2848 16.4	4859 12.9	6674 34.0	7687 21
40	9.1	198 16.9	1199 19.9	2880 23.5	4892 21.7	6699 43.8	7694 20
41	57°10.3	208 59°20.0	1222 63°25.0	2912 69°30.5	4926 77°30.5	6724 86°53.5	7700 19
42	11.5	218 23.1	1245 30.1	2944 37.6	4959 39.3	6749 87 3.3	7707 18
43	12.8	228 26.2	1268 35.2	2977 44.8	4993 48.2	6773 13.1	7713 17
44	14.1	239 29.4	1292 40.4	3009 52.0	5026 57.1	6797 22.9	7719 16
45	15.5	250 32.6	1316 45.6	3041 59.2	5059 78 6.0	6821 32.7	7725 15
46	57°16.8	261 59°35.9	1340 63°50.8	3074 70° 6.4	5092 78°14.9	6844 87°42.5	7730 14
47	18.2	273 39.2	1365 56.1	3107 13.7	5125 23.8	6868 52.3	7735 13
48	19.7	284 42.5	1389 64 1.4	3139 21.0	5159 32.8	6891 88 2.1	7739 12
49	21.1	296 45.8	1414 6.7	3172 28.3	5192 41.8	6914 11.9	7743 11
50	22.6	308 49.2	1438 12.1	3205 35.7	5224 50.8	6936 21.7	7747 10
51	57°24.2	320 59°52.6	1463 64°17.5	3238 70°43.0	5257 78°59.9	6959 88°31.5	7750 9
52	25.7	333 56.0	1489 23.0	3271 50.5	5290 79 8.9	6981 41.4	7753 8
53	27.3	345 59.5	1514 28.4	3304 57.9	5322 18.0	7003 51.2	7756 7
54	28.9	359 60 3.0	1540 33.9	3337 71 5.4	5355 27.1	7024 89 1.0	7758 6
55	30.6	372 6.6	1565 39.5	3370 12.9	5388 36.2	7046 10.8	7760 5
56	57°32.2	386 60°10.1	1591 64°45.0	3403 71°20.5	5420 79°45.4	7067 89°20.7	7762 4
57	34.0	400 13.7	1617 50.6	3437 28.1	5452 54.5	7087 30.5	7763 3
58	35.7	413 17.4	1644 56.3	3470 35.7	5484 80 3.7	7108 40.3	7764 2
59	37.5	427 21.0	1670 65 2.0	3503 43.3	5516 12.9	7128 50.2	7764 1
60	39.3	442 24.8	1697 7.6	3537 51.0	5548 22.2	7148 90 0.0	7764 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	57° 0·0	0 57°54·0	436 60°38·8	1673 65°20·1	3486 72° 0·7	5464 80°27·5	7036 60
1	0·0	0 55·9	450 42·5	1700 25·8	3519 8·3	5495 36·7	7055 59
2	0·1	0 57·7	465 46·2	1726 31·6	3552 16·0	5526 45·9	7074 58
3	0·1	1 59·6	480 50·0	1752 37·3	3585 23·7	5558 55·1	7093 57
4	0·2	2 58 1·5	495 53·8	1779 43·1	3618 31·4	5588 81 4·3	7112 56
5	0·4	3 3·5	510 57·7	1807 49·0	3652 39·2	5619 13·5	7130 55
6	57° 0·5	4 58° 5·5	526 61° 1·6	1834 65°54·9	3685 72°47·0	5650 81°22·8	7148 54
7	0·7	6 7·5	542 5·5	1861 66 0·8	3718 54·8	5680 32·0	7165 53
8	1·0	8 9·5	558 9·4	1889 6·7	3751 73 2·7	5711 41·3	7182 52
9	1·2	10 11·6	574 13·4	1916 12·7	3784 10·6	5741 50·6	7199 51
10	1·5	12 13·7	590 17·4	1944 18·7	3818 18·5	5771 59·9	7216 50
11	57° 1·8	15 58°15·8	607 61°21·5	1972 66°24·7	3852 73°26·4	5801 82° 9·3	7232 49
12	2·2	18 18·0	624 25·5	2000 30·8	3885 34·4	5831 18·6	7248 48
13	2·5	21 20·2	641 29·6	2028 36·9	3919 42·4	5861 28·0	7264 47
14	2·9	24 22·4	658 33·8	2056 43·0	3952 50·4	5890 37·4	7280 46
15	3·4	27 24·7	676 38·0	2085 49·2	3985 58·5	5920 46·8	7295 45
16	57° 3·8	31 58°26·9	694 61°42·2	2114 66°55·4	4019 74° 6·6	5949 82°56·2	7310 44
17	4·3	35 29·3	712 46·4	2143 67 1·7	4052 14·7	5978 83 5·6	7325 43
18	4·8	40 31·6	730 50·7	2172 7·9	4085 22·8	6007 15·0	7339 42
19	5·4	44 34·0	749 55·0	2201 14·2	4119 31·0	6035 24·5	7353 41
20	6·0	49 36·4	767 59·3	2230 20·6	4153 39·2	6064 34·0	7367 40
21	57° 6·6	54 58°38·8	786 62° 3·7	2259 67°26·9	4186 74°47·4	6092 83°43·4	7380 39
22	7·2	59 41·3	805 8·1	2288 33·3	4220 55·7	6120 52·9	7393 38
23	7·9	65 43·8	824 12·5	2318 39·8	4253 75 3·9	6148 84 2·4	7406 37
24	8·6	71 46·4	844 17·0	2348 46·3	4287 12·2	6176 11·9	7418 36
25	9·3	77 48·9	863 21·5	2378 52·8	4320 20·6	6204 21·5	7430 35
26	57°10·1	83 58°51·5	883 62°26·0	2408 67°59·3	4353 75°28·9	6232 84°31·0	7441 34
27	10·9	89 54·2	903 30·6	2438 68 5·9	4387 37·3	6259 40·6	7453 33
28	11·7	96 56·8	923 35·2	2468 12·5	4420 45·7	6286 50·1	7464 32
29	12·6	103 59·5	944 39·9	2498 19·1	4454 54·2	6313 59·7	7475 31
30	13·5	110 59 2·2	964 44·5	2529 25·8	4487 76 2·6	6339 85 9·3	7485 30
31	57°14·4	118 59° 5·0	985 62°49·2	2559 68°32·5	4521 76°11·1	6366 85°18·9	7495 29
32	15·3	125 7·8	1007 54·0	2590 39·2	4554 19·6	6392 28·5	7505 28
33	16·3	133 10·6	1028 58·7	2620 46·0	4588 28·2	6418 38·1	7515 27
34	17·3	141 13·5	1049 63 3·5	2651 52·8	4621 36·7	6444 47·7	7524 26
35	18·3	149 16·3	1071 8·4	2682 59·6	4654 45·3	6470 57·4	7533 25
36	57°19·4	158 59°19·3	1093 63°13·2	2714 69° 6·5	4687 76°53·9	6495 86° 7·0	7541 24
37	20·5	167 22·2	1115 18·1	2745 13·3	4720 77 2·6	6521 16·6	7549 23
38	21·6	176 25·2	1137 23·1	2777 20·3	4754 11·2	6546 26·3	7557 22
39	22·8	186 28·2	1159 28·1	2808 27·2	4787 19·9	6571 36·0	7564 21
40	24·0	195 31·2	1182 33·1	2840 34·2	4820 28·6	6595 45·6	7571 20
41	57°25·2	205 59°34·3	1205 63°38·1	2871 69°41·2	4852 77°37·4	6619 86°55·3	7578 19
42	26·4	215 37·4	1228 43·2	2902 48·3	4885 46·1	6643 87 5·0	7585 18
43	27·7	225 40·5	1251 48·3	2934 55·4	4918 54·9	6667 14·7	7591 17
44	29·0	236 43·7	1274 53·4	2966 70 2·5	4951 78 3·7	6691 24·4	7597 16
45	30·3	247 46·9	1298 58·6	2998 9·7	4984 12·5	6715 34·1	7602 15
46	57°31·7	258 59°50·2	1322 64° 3·8	3030 70°16·9	5017 78°21·4	6738 87°43·8	7607 14
47	33·1	269 53·4	1345 9·0	3062 24·1	5049 30·3	6761 53·5	7611 13
48	34·5	280 56·7	1370 14·3	3095 31·3	5082 39·2	6783 88 3·2	7615 12
49	36·0	292 60 0·0	1394 19·6	3127 38·6	5114 48·1	6806 12·9	7619 11
50	37·5	304 3·4	1419 24·9	3159 45·9	5146 57·0	6828 22·6	7623 10
51	57°39·0	316 60° 6·8	1443 64°30·3	3191 70°53·2	5178 79° 6·0	6850 88°32·4	7627 9
52	40·6	328 10·2	1468 35·7	3224 71 0·6	5210 15·0	6871 42·1	7629 8
53	42·1	341 13·7	1493 41·1	3257 8·0	5242 24·0	6893 51·8	7632 7
54	43·7	353 17·2	1519 46·6	3290 15·4	5274 33·0	6914 89 1·6	7635 6
55	45·4	367 20·7	1544 52·1	3322 22·9	5306 42·0	6935 11·3	7637 5
56	57°47·1	380 60°24·2	1569 64°57·6	3354 71°30·4	5338 79°51·1	6956 89°21·0	7638 4
57	48·8	393 27·8	1595 65 3·2	3387 37·9	5370 80 0·2	6976 30·8	7639 3
58	50·5	407 31·5	1621 8·8	3420 45·5	5401 9·3	6996 40·5	7640 2
59	52·3	421 35·1	1647 14·5	3453 53·1	5433 18·4	7016 50·3	7641 1
60	54·0	436 38·8	1673 20·1	3486 72 0·7	5464 27·5	7036 90 0·0	7641 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	57° 15.0	0 58° 8.8	430 60° 52.8	1650 65° 32.6	3435 72° 10.3	5381 80° 32.9	6925 60
1	15.0	0 10.6	444 56.5	1676 38.2	3468 17.9	5412 42.0	6944 59
2	15.1	0 12.5	459 61 0.2	1702 43.9	3500 25.5	5442 51.1	6962 58
3	15.1	1 14.4	473 4.0	1728 49.7	3533 33.2	5473 81 0.2	6981 57
4	15.2	2 16.3	488 7.8	1755 55.4	3566 40.8	5503 9.3	6999 56
5	15.4	3 18.2	504 11.6	1781 66 1.2	3598 48.5	5533 18.5	7017 55
6	57° 15.5	4 58° 20.2	519 61° 15.5	1808 66° 7.1	3631 72° 56.3	5563 81° 27.6	7035 54
7	15.7	6 22.2	534 19.4	1835 12.9	3664 73 4.0	5593 36.8	7051 53
8	16.0	8 24.2	550 23.3	1862 18.8	3697 11.8	5623 46.0	7088 52
9	16.2	10 26.3	566 27.3	1889 24.8	3729 19.6	5653 55.2	7085 51
10	16.5	12 28.4	582 31.3	1917 30.8	3762 27.5	5683 82 4.5	7102 50
11	57° 16.8	15 58° 30.5	599 61° 35.3	1944 66° 36.8	3795 73° 35.4	5712 82° 13.7	7118 49
12	17.1	17 32.7	615 39.3	1972 42.8	3828 43.3	5741 23.0	7133 48
13	17.5	20 34.8	632 43.4	2000 48.8	3861 51.2	5771 32.2	7149 47
14	17.9	24 37.0	650 47.5	2028 54.9	3894 59.2	5800 41.5	7164 46
15	18.4	27 39.3	667 51.7	2056 67 1.1	3927 74 7.2	5828 50.9	7179 45
16	57° 18.8	31 58° 41.6	684 61° 55.9	2084 67° 7.2	3960 74° 15.2	5857 83° 0.2	7194 44
17	19.3	34 43.9	702 62 0.1	2112 13.4	3993 23.2	5886 9.5	7208 43
18	19.8	40 46.2	720 4.3	2141 19.7	4025 31.3	5914 18.9	7222 42
19	20.4	44 48.6	738 8.6	2170 25.9	4058 39.4	5942 28.2	7236 41
20	21.0	48 51.0	756 12.9	2198 32.2	4092 47.5	5970 37.6	7249 40
21	57° 21.6	53 58° 53.4	775 62° 17.3	2227 67° 38.6	4125 74° 55.7	5998 83° 47.0	7262 39
22	22.2	58 55.9	794 21.7	2256 44.9	4157 75 3.9	6026 56.4	7275 38
23	22.9	64 58.4	813 26.1	2285 51.3	4190 12.1	6054 84 5.8	7287 37
24	23.6	70 59 0.9	832 30.5	2315 57.7	4223 20.3	6081 15.2	7300 36
25	24.3	75 3.5	851 35.0	2344 68 4.2	4256 28.6	6108 24.7	7312 35
26	57° 25.1	82 59° 6.1	871 62° 39.5	2374 68° 10.7	4289 75° 36.9	6135 84° 34.1	7323 34
27	25.9	88 8.7	891 44.1	2403 17.2	4322 45.2	6162 43.6	7334 33
28	26.7	95 11.3	911 48.6	2433 23.8	4355 53.5	6188 53.1	7345 32
29	27.5	102 14.0	931 53.2	2463 30.4	4388 76 1.9	6215 85 2.6	7356 31
30	28.4	109 16.7	951 57.9	2493 37.0	4421 10.3	6241 12.1	7366 30
31	57° 29.3	116 59° 19.5	972 63° 2.6	2523 68° 43.6	4454 76° 18.7	6267 85° 21.6	7376 29
32	30.3	123 22.3	993 7.3	2553 50.3	4486 27.2	6293 31.1	7385 28
33	31.2	131 25.1	1014 12.0	2583 57.0	4519 35.6	6318 40.6	7394 27
34	32.2	139 27.9	1035 16.8	2614 69 3.8	4552 44.1	6344 50.1	7403 26
35	33.3	147 30.8	1056 21.6	2645 10.6	4585 52.6	6369 59.7	7412 25
36	57° 34.3	156 59° 33.7	1078 63° 26.4	2675 69° 17.4	4617 77° 1.2	6394 86° 9.2	7420 24
37	35.4	164 36.6	1099 31.3	2705 24.2	4650 9.7	6419 18.8	7429 23
38	36.5	174 39.6	1121 36.2	2737 31.1	4682 18.3	6444 28.3	7436 22
39	37.7	183 42.6	1143 41.2	2768 38.0	4715 26.9	6468 37.9	7443 21
40	38.9	193 45.6	1166 46.1	2799 45.0	4747 35.6	6492 47.5	7450 20
41	57° 40.1	202 59° 48.6	1188 63° 51.1	2830 69° 51.9	4780 77° 44.2	6516 86° 57.1	7457 19
42	41.3	212 51.7	1211 56.2	2861 58.9	4812 52.9	6540 87 6.7	7463 18
43	42.6	222 54.9	1234 64 1.3	2892 70 6.0	4844 78 1.6	6563 16.3	7469 17
44	43.9	233 58.0	1257 6.4	2923 13.0	4877 10.4	6586 25.9	7475 16
45	45.2	244 60 1.2	1280 11.5	2955 20.1	4909 19.1	6609 35.5	7480 15
46	57° 46.6	254 60° 4.4	1304 64° 16.7	2986 70° 27.3	4941 78° 27.9	6632 87° 45.1	7485 14
47	48.0	265 7.7	1327 21.9	3018 34.4	4973 36.7	6655 54.7	7490 13
48	49.4	276 10.9	1351 27.1	3050 41.6	5005 45.5	6677 88 4.3	7494 12
49	50.9	288 14.3	1375 32.4	3082 48.8	5036 54.3	6699 13.9	7497 11
50	52.3	300 17.6	1399 37.7	3113 56.1	5068 79 3.2	6721 23.6	7500 10
51	57° 53.8	312 60° 21.0	1423 64° 43.0	3145 71° 3.4	5100 79° 12.1	6742 88° 33.2	7504 9
52	55.4	323 24.4	1448 48.4	3177 10.7	5132 21.0	6764 42.8	7507 8
53	57.0	337 27.8	1473 53.8	3209 18.0	5163 29.9	6785 52.5	7510 7
54	58.5	349 31.3	1497 59.2	3242 25.4	5195 38.8	6805 89 2.1	7512 6
55	58 0.2	362 34.8	1522 65 4.7	3274 32.8	5226 47.8	6826 11.8	7514 5
56	58° 1.9	375 60° 38.4	1548 65° 10.2	3306 71° 40.3	5257 79° 56.8	6846 89° 21.4	7516 4
57	3.6	388 41.9	1573 15.8	3338 47.7	5288 80 5.8	6866 31.1	7517 3
58	5.3	402 45.5	1598 21.3	3370 55.2	5319 14.8	6886 40.7	7518 2
59	7.0	416 49.1	1624 26.9	3403 72 2.7	5350 23.8	6906 50.4	7518 1
60	8.8	430 52.8	1650 32.6	3435 10.3	5381 32.9	6925 90 0.0	7518 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	57°30:0	0	58°23:6	424	61° 6:8	1627	65°45:0	3385	72°19:9	5298	80°38:2	6815	60
1	30:0	0	25:4	438	10:5	1652	50:6	3417	27:4	5329	47:2	6833	59
2	30:1	0	27:3	453	14:2	1678	56:3	3449	35:0	5359	56:2	6851	58
3	30:1	1	29:1	467	18:0	1704	66 2:0	3481	42:6	5389	81 5:3	6869	57
4	30:2	2	31:0	482	21:7	1730	7:7	3513	50:2	5418	14:3	6887	56
5	30:4	3	33:0	497	25:5	1756	13:5	3545	57:8	5448	23:4	6905	55
6	57°30:5	4	58°34:9	512	61°29:4	1783	66°19:3	3578	73° 5:5	5478	81°32:5	6922	54
7	30:7	6	36:9	527	33:2	1809	25:1	3610	13:2	5507	41:6	6939	53
8	30:9	8	38:9	543	37:1	1836	31:0	3642	20:9	5537	50:7	6956	52
9	31:2	10	41:0	558	41:1	1863	36:9	3674	28:7	5566	59:8	6972	51
10	31:5	12	43:1	574	45:1	1890	42:8	3707	36:5	5595	82 8:9	6988	50
11	57°31:8	14	58°45:2	590	61°49:1	1917	66°48:7	3739	73°44:3	5624	82°18:1	7005	49
12	32:1	17	47:3	607	53:1	1944	54:7	3771	52:1	5652	27:3	7020	48
13	32:5	20	49:5	624	57:1	1971	67 0:8	3804	74 0:0	5681	36:5	7035	47
14	32:9	23	51:7	641	62 1:2	1999	6:8	3836	7:9	5710	45:7	7050	46
15	33:3	27	53:9	658	5:4	2026	12:9	3869	15:8	5738	54:9	7064	45
16	57°33:8	31	58°56:2	675	62° 9:5	2054	67°19:0	3901	74°23:8	5766	83° 4:2	7078	44
17	34:3	34	58:5	692	13:7	2082	25:2	3933	31:8	5794	13:4	7092	43
18	34:8	39	59 0:8	710	18:0	2110	31:4	3966	39:8	5822	22:7	7106	42
19	35:4	43	3:2	728	22:2	2139	37:6	3998	47:8	5850	31:9	7120	41
20	35:9	48	5:6	746	26:5	2167	43:8	4031	55:9	5878	41:2	7133	40
21	57°36:5	52	59° 8:0	764	62°30:8	2196	67°50:1	4063	75° 4:0	5905	83°50:5	7146	39
22	37:2	58	10:5	783	35:2	2224	56:5	4095	12:1	5932	59:9	7158	38
23	37:9	63	12:9	801	39:6	2253	68 2:8	4128	20:2	5959	84 9:2	7171	37
24	38:6	69	15:5	820	44:0	2282	9:2	4161	28:4	5986	18:5	7183	36
25	39:3	74	18:0	840	48:5	2311	15:6	4193	36:6	6013	27:9	7194	35
26	57°40:0	80	59°20:6	859	62°52:9	2340	68°22:0	4225	75°44:8	6039	84°37:2	7205	34
27	40:8	87	23:2	878	57:4	2369	28:5	4257	53:0	6065	46:6	7216	33
28	41:6	93	25:8	898	63 2:0	2398	35:0	4290	76 1:3	6092	56:0	7227	32
29	42:5	100	28:5	918	6:6	2427	41:6	4322	9:6	6118	85 5:4	7237	31
30	43:4	107	31:2	938	11:2	2457	48:2	4354	17:9	6143	14:8	7247	30
31	57°44:3	114	59°33:9	958	63°15:9	2486	68°54:8	4387	76°26:3	6169	85°24:2	7257	29
32	45:2	121	36:7	979	20:6	2516	69 1:4	4419	34:6	6195	33:6	7267	28
33	46:2	129	39:5	1000	25:3	2546	8:1	4451	43:0	6220	43:1	7276	27
34	47:2	137	42:3	1021	30:0	2576	14:8	4483	51:5	6245	52:5	7284	26
35	48:2	145	45:2	1042	34:8	2606	21:5	4516	59:9	6269	86 2:0	7293	25
36	57°49:2	154	59°48:1	1063	63°39:6	2637	69°28:3	4548	77° 8:4	6294	86°11:4	7301	24
37	50:3	162	51:0	1084	44:5	2667	35:1	4580	16:9	6318	20:9	7309	23
38	51:4	171	53:9	1106	49:3	2697	41:9	4612	25:4	6342	30:3	7316	22
39	52:6	180	56:9	1128	54:2	2727	48:7	4644	33:9	6366	39:8	7323	21
40	53:8	190	59:9	1150	59:2	2758	55:6	4675	42:5	6390	49:3	7330	20
41	57°55:0	199	60° 3:0	1172	64° 4:2	2789	70° 2:6	4707	77°51:1	6413	86°58:8	7337	19
42	56:2	209	6:0	1195	9:2	2820	9:5	4739	59:7	6437	87 8:3	7343	18
43	57:5	219	9:1	1217	14:2	2850	16:5	4771	78 8:3	6460	17:8	7349	17
44	58:8	229	12:3	1239	19:3	2881	23:5	4803	16:9	6483	27:3	7354	16
45	58 0:1	240	15:5	1262	24:4	2912	30:6	4834	25:6	6505	36:8	7359	15
46	58° 1:5	251	60°18:7	1285	64°29:5	2943	70°37:6	4866	78°34:3	6528	87°46:4	7364	14
47	2:9	261	21:9	1308	34:7	2974	44:7	4897	43:0	6550	55:9	7369	13
48	4:3	273	25:2	1332	39:9	3005	51:9	4929	51:8	6571	88 5:4	7373	12
49	5:7	284	28:5	1356	45:2	3037	59:0	4960	79 0:5	6593	15:0	7377	11
50	7:2	296	31:8	1380	50:4	3068	71 6:2	4991	9:3	6615	24:5	7380	10
51	58° 8:7	308	60°35:1	1404	64°55:7	3099	71°13:5	5022	79°18:1	6636	88°34:0	7383	9
52	10:2	320	38:5	1428	65 1:1	3131	20:7	5053	26:9	6657	43:6	7386	8
53	11:8	332	42:0	1452	6:5	3163	28:0	5084	35:8	6677	53:1	7389	7
54	13:4	344	45:4	1476	11:9	3194	35:3	5115	44:6	6697	89 2:7	7391	6
55	15:0	357	48:9	1501	17:3	3226	42:7	5146	53:5	6717	12:2	7393	5
56	58°16:7	370	60°52:4	1526	65°22:8	3258	71°50:1	5177	80° 2:4	6737	89°21:8	7395	4
57	18:4	383	56:0	1551	28:3	3290	57:5	5207	11:3	6757	31:3	7396	3
58	20:1	397	59:6	1576	33:8	3321	72 4:9	5238	20:3	6777	40:9	7396	2
59	21:8	410	61 3:2	1601	39:4	3353	12:4	5268	29:2	6796	50:4	7397	1
60	23:6	424	6:8	1627	45:0	3385	19:9	5298	38:2	6815	90 0:0	7397	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	57°45·0	0	58°38·4	418	61°20·8	1604	65°57·4	3335	72°29·4	5217	80°43·5	6705	60
1	45·0	0	40·2	432	24·5	1629	66 3·0	3367	36·9	5246	52·4	6724	59
2	45·1	0	42·0	446	28·2	1654	8·6	3398	44·4	5276	81 1·4	6742	58
3	45·1	1	43·9	460	31·9	1680	14·2	3430	51·9	5305	10·3	6759	57
4	45·2	2	45·8	475	35·7	1705	19·9	3461	59·5	5335	19·3	6777	56
5	45·4	3	47·7	490	39·5	1731	25·7	3493	73 7·1	5364	28·3	6794	55
6	57°45·5	4	58°49·6	505	61°43·3	1757	66°31·4	3524	73°14·7	5393	81°37·3	6811	54
7	45·7	6	51·6	520	47·1	1783	37·2	3556	22·3	5422	46·3	6827	53
8	45·9	7	53·7	535	51·0	1810	43·0	3588	30·0	5451	55·3	6844	52
9	46·2	10	55·7	551	54·9	1836	48·9	3620	37·7	5479	82 4·4	6860	51
10	46·5	12	57·7	566	58·8	1863	54·8	3651	45·4	5508	13·4	6876	50
11	57°46·8	14	58°59·9	582	62° 2·8	1889	67° 0·7	3683	73°53·2	5536	82°22·5	6891	49
12	47·1	17	59 2·0	599	6·8	1916	6·7	3715	74 0·9	5565	31·6	6906	48
13	47·5	20	4·2	615	10·9	1943	12·7	3747	8·7	5593	40·7	6921	47
14	47·9	23	6·4	632	15·0	1970	18·7	3779	16·6	5621	49·8	6936	46
15	48·3	26	8·6	649	19·1	1998	24·7	3811	24·5	5649	59·0	6950	45
16	57°48·8	30	59°10·8	666	62°23·2	2025	67°30·8	3843	74°32·4	5676	83° 8·1	6964	44
17	49·3	34	13·1	683	27·4	2053	36·9	3874	40·3	5704	17·3	6978	43
18	49·8	38	15·4	700	31·6	2080	43·1	3906	48·2	5731	26·4	6992	42
19	50·3	42	17·8	718	35·8	2108	49·2	3938	56·2	5758	35·6	7005	41
20	50·9	47	20·2	736	40·1	2136	55·4	3970	75 4·2	5785	44·8	7018	40
21	57°51·5	52	59°22·6	754	62°44·4	2164	68° 1·7	4002	75°12·2	5812	83°54·1	7030	39
22	52·1	57	25·0	772	48·7	2192	8·0	4034	20·2	5839	84 3·3	7043	38
23	52·8	62	27·5	790	53·1	2220	14·3	4066	28·3	5866	12·5	7055	37
24	53·5	68	30·0	809	57·5	2249	20·6	4098	36·4	5892	21·8	7066	36
25	54·2	73	32·5	828	63 1·9	2277	27·0	4130	44·5	5918	31·0	7078	35
26	57°55·0	79	59°35·1	847	63° 6·4	2306	68°33·4	4162	75°52·7	5944	84°40·3	7089	34
27	55·8	86	37·7	866	10·9	2335	39·8	4193	76 0·9	5970	49·6	7100	33
28	56·6	92	40·3	886	15·4	2364	46·3	4225	9·1	5996	58·9	7110	32
29	57·4	99	43·0	905	19·9	2393	52·8	4257	17·3	6021	85 8·2	7120	31
30	58·3	106	45·7	925	24·5	2422	59·3	4289	25·5	6046	17·5	7130	30
31	57°59·2	113	59°48·4	945	63°29·2	2451	69° 5·9	4320	76°33·8	6071	85°26·8	7140	29
32	58 0·1	120	51·1	965	33·8	2480	12·4	4352	42·1	6096	36·2	7149	28
33	1·1	127	53·9	986	38·5	2509	19·1	4384	50·4	6121	45·5	7158	27
34	2·1	135	56·7	1006	43·2	2539	25·7	4415	58·8	6146	54·9	7166	26
35	3·1	143	59·6	1027	48·0	2569	32·4	4447	77 7·1	6170	86 4·2	7175	25
36	58° 4·2	152	60° 2·4	1048	63°52·8	2598	69°39·1	4479	77°15·5	6194	86°13·6	7183	24
37	5·3	160	5·3	1069	57·6	2628	45·9	4510	24·0	6218	23·0	7190	23
38	6·4	169	8·3	1090	64 2·4	2658	52·6	4541	32·4	6242	32·4	7198	22
39	7·5	178	11·3	1112	7·3	2688	59·4	4573	40·9	6265	41·8	7205	21
40	8·7	187	14·3	1133	12·2	2718	70 6·3	4604	49·3	6289	51·2	7211	20
41	58° 9·9	197	60°17·3	1155	64°17·2	2748	70°13·2	4636	77°57·9	6312	87° 0·6	7218	19
42	11·1	206	20·3	1177	22·2	2778	20·1	4667	78 6·4	6334	10·0	7224	18
43	12·4	216	23·4	1199	27·2	2809	27·0	4698	14·9	6357	19·4	7230	17
44	13·7	226	26·5	1222	32·2	2839	34·0	4729	23·5	6379	28·8	7235	16
45	15·0	237	29 7	1245	37·3	2870	41·0	4760	32·1	6402	38·2	7240	15
46	58°16·3	247	60°32·9	1267	64°42·4	2900	70°48·0	4791	78°40·7	6424	87°47·6	7245	14
47	17·7	258	36·1	1290	47·5	2931	55·0	4822	49·4	6445	57·1	7249	13
48	19·1	269	39·4	1313	52·7	2962	71 2·1	4853	58·0	6467	88 6·5	7253	12
49	20·6	280	42·7	1337	57·9	2992	9·2	4884	79 6·7	6488	16·0	7257	11
50	22·0	292	46·0	1360	65 3·2	3023	16·4	4915	15·4	6509	25·4	7260	10
51	58°23·5	303	60°49·3	1384	65° 8·4	3054	71°23·5	4945	79°24·1	6530	88°34·9	7264	9
52	25·1	315	52·7	1407	13·7	3085	30·7	4976	32·9	6550	44·3	7267	8
53	26·6	327	56·1	1431	19·0	3116	38·0	5006	41·6	6571	53·8	7269	7
54	28·2	340	59·5	1456	24·4	3147	45·2	5037	50·4	6591	89 3·2	7271	6
55	29·8	352	61 3·0	1480	29·9	3178	52·5	5067	59·2	6610	12·7	7273	5
56	58°31·5	365	61° 6·5	1504	65°35·3	3209	71°59·9	5097	80° 8·0	6630	89°22·1	7274	4
57	33·2	378	10·0	1529	40·8	3241	72 7·2	5127	16·9	6649	31·6	7275	3
58	34·9	391	13·6	1554	46·3	3272	14·6	5157	25·7	6668	41·1	7276	2
59	36·6	405	17·2	1578	51·8	3304	22·0	5187	34·6	6687	50·5	7277	1
60	38·4	418	20·8	1604	57·4	3335	29·4	5217	43·5	6705	90 0·0	7277	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	58° 0' 0	0 58° 53' 1	412 61° 34' 8	1581 66° 9' 7	3285 72° 39' 0	5136 80° 48' 8	6597 60
1	0' 0	0 54' 9	426 38' 4	1605 15' 3	3316 46' 4	5165 57' 6	6615 59
2	0' 1	0 56' 8	440 42' 1	1630 20' 9	3347 53' 8	5194 81 6' 5	6633 58
3	0' 1	1 58' 6	454 45' 8	1656 26' 5	3378 73 1' 3	5223 15' 4	6650 57
4	0' 2	2 59 0' 5	468 49' 5	1681 32' 1	3410 8' 8	5252 24' 2	6667 56
5	0' 4	3 2' 4	483 53' 3	1706 37' 8	3441 16' 3	5280 33' 1	6684 55
6	58° 0' 5	4 59° 4' 4	498 61° 57' 1	1732 66° 43' 6	3472 73° 23' 8	5308 81° 42' 0	6701 54
7	0' 7	6 6' 3	513 62 0' 9	1758 49' 3	3503 31' 4	5337 51' 0	6717 53
8	0' 9	7 8' 3	528 4' 8	1784 55' 1	3534 39' 0	5365 59' 9	6733 52
9	1' 2	9 10' 4	543 8' 7	1810 67 0' 9	3565 46' 7	5393 82 8' 9	6749 51
10	1' 5	11 12' 4	558 12' 6	1836 6' 8	3597 54' 3	5421 17' 9	6764 50
11	58° 1' 8	14 59° 14' 5	574 62° 16' 6	1862 67° 12' 6	3628 74° 2' 0	5449 82° 26' 9	6780 49
12	2' 1	17 16' 7	590 20' 6	1889 18' 6	3660 9' 7	5477 35' 9	6795 48
13	2' 5	20 18' 8	606 24' 6	1915 24' 5	3691 17' 5	5505 44' 9	6809 47
14	2' 9	23 21' 0	623 28' 6	1942 30' 5	3722 25' 2	5532 53' 9	6823 46
15	3' 3	26 23' 2	639 32' 7	1969 36' 5	3753 33' 0	5560 83 3' 0	6837 45
16	58° 3' 8	30 59° 25' 5	656 62° 36' 8	1996 67° 42' 5	3784 74° 40' 9	5587 83° 12' 0	6851 44
17	4' 3	33 27' 7	674 41' 0	2023 48' 6	3816 48' 7	5614 21' 1	6865 43
18	4' 8	38 30' 0	691 45' 2	2050 54' 7	3847 56' 6	5641 30' 2	6878 42
19	5' 3	42 32' 4	708 49' 4	2078 68 0' 8	3879 75 4' 5	5667 39' 3	6891 41
20	5' 9	46 34' 8	725 53' 6	2105 7' 0	3910 12' 4	5694 48' 4	6904 40
21	58° 6' 5	51 59° 37' 2	743 62° 57' 9	2132 68° 13' 2	3942 75° 20' 4	5721 83° 57' 6	6916 39
22	7' 1	56 39' 6	761 63 2' 2	2160 19' 4	3973 28' 4	5747 84 6' 7	6928 38
23	7' 8	61 42' 0	780 6' 5	2188 25' 7	4004 36' 4	5773 15' 9	6940 37
24	8' 5	67 44' 5	798 10' 9	2216 32' 0	4036 44' 4	5798 25' 0	6952 36
25	9' 2	72 47' 0	816 15' 3	2244 38' 3	4067 52' 4	5824 34' 2	6963 35
26	58° 9' 9	78 59° 49' 6	835 63° 19' 8	2272 68° 44' 7	4099 76° 0' 5	5850 84° 43' 4	6974 34
27	10' 7	84 52' 2	854 24' 2	2300 51' 1	4130 8' 6	5875 52' 6	6984 33
28	11' 5	91 54' 8	873 28' 7	2329 57' 5	4161 16' 8	5900 85 1' 8	6994 32
29	12' 4	97 57' 4	892 33' 3	2357 69 3' 9	4192 24' 9	5926 11' 0	7004 31
30	13' 2	104 60 0' 1	912 37' 8	2386 10' 4	4223 33' 1	5951 20' 2	7014 30
31	58° 14' 1	111 60° 2' 8	932 63° 42' 4	2415 69° 16' 9	4255 76° 41' 3	5975 85° 29' 5	7023 29
32	15' 1	118 5' 6	952 47' 1	2444 23' 5	4286 49' 5	6000 38' 7	7032 28
33	16' 0	126 8' 3	971 51' 7	2473 30' 0	4317 57' 8	6024 48' 0	7041 27
34	17' 0	133 11' 1	991 56' 4	2502 36' 6	4348 77 6' 1	6048 57' 2	7050 26
35	18' 0	141 14' 0	1012 64 1' 1	2531 43' 3	4379 14' 3	6072 86 6' 5	7058 25
36	58° 19' 1	150 60° 16' 8	1033 64° 5' 9	2560 69° 49' 9	4410 77° 22' 7	6096 86° 15' 8	7066 24
37	20' 2	158 19' 7	1054 10' 7	2590 56' 6	4441 31' 0	6119 25' 1	7073 23
38	21' 3	167 22' 6	1075 15' 5	2619 70 3' 4	4472 39' 4	6142 34' 4	7080 22
39	22' 4	176 25' 6	1096 20' 4	2649 10' 1	4503 47' 8	6165 43' 6	7087 21
40	23' 6	185 28' 6	1117 25' 3	2678 16' 9	4534 56' 2	6188 53' 0	7093 20
41	58° 24' 8	194 60° 31' 6	1139 64° 30' 2	2708 70° 23' 7	4564 78° 4' 6	6211 87° 2' 3	7100 19
42	26' 0	204 34' 6	1161 35' 1	2738 30' 6	4595 13' 1	6233 11' 6	7106 18
43	27' 2	213 37' 7	1183 40' 1	2767 37' 5	4626 21' 6	6255 20' 9	7111 17
44	28' 5	223 40' 8	1205 45' 1	2797 44' 4	4656 30' 1	6277 30' 2	7117 16
45	29' 8	233 43' 9	1227 50' 1	2827 51' 3	4687 38' 6	6299 39' 6	7122 15
46	58° 31' 2	244 60° 47' 1	1249 64° 55' 2	2857 70° 58' 3	4717 78° 47' 1	6321 87° 48' 9	7126 14
47	32' 6	254 50' 3	1272 65 0' 3	2887 71 5' 3	4748 55' 7	6342 58' 3	7131 13
48	34' 0	265 53' 6	1295 5' 5	2917 12' 3	4778 79 4' 3	6363 88 7' 6	7135 12
49	35' 4	276 56' 8	1318 10' 7	2948 19' 4	4808 12' 9	6384 16' 9	7139 11
50	36' 9	287 61 0' 1	1341 15' 9	2978 26' 5	4838 21' 5	6404 26' 3	7142 10
51	58° 38' 4	299 61° 3' 4	1364 65° 21' 1	3009 71° 33' 6	4869 79° 30' 1	6425 88° 35' 7	7145 9
52	39' 9	311 6' 8	1387 26' 4	3039 40' 7	4899 38' 8	6445 45' 0	7148 8
53	41' 4	323 10' 2	1411 31' 7	3070 47' 9	4929 47' 5	6465 54' 4	7150 7
54	43' 0	335 13' 6	1435 37' 0	3100 55' 1	4958 56' 2	6485 89 3' 8	7152 6
55	44' 6	347 17' 1	1459 42' 4	3131 72 2' 4	4988 80 4' 9	6504 13' 2	7154 5
56	58° 46' 3	360 61° 20' 5	1483 65° 47' 8	3162 72° 9' 6	5017 80° 13' 6	6523 89° 22' 5	7155 4
57	47' 9	372 24' 1	1507 53' 2	3193 16' 9	5047 22' 4	6542 31' 9	7156 3
58	49' 6	386 27' 6	1531 58' 7	3223 24' 2	5077 31' 2	6561 41' 3	7157 2
59	51' 4	399 31' 2	1556 66 4' 2	3254 31' 6	5106 40' 0	6579 50' 6	7158 1
60	53' 1	412 34' 8	1581 9' 7	3285 39' 0	5136 48' 8	6597 90 0' 0	7158 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	58°15.0	0 59° 7.9	407 61°48.8	1558 66°22.0	3236 72°48.4	5055 80°54.0	6490 60
1	15.0	0 9.7	420 52.4	1582 27.6	3266 55.8	5083 81 2.8	6508 59
2	15.1	0 11.5	434 56.0	1607 33.1	3297 73 3.2	5112 11.6	6525 58
3	15.1	1 13.4	448 59.7	1632 38.7	3328 10.6	5140 20.3	6542 57
4	15.2	2 15.2	462 62 3.4	1657 44.3	3358 18.0	5169 29.1	6559 56
5	15.4	3 17.1	476 7.2	1682 50.0	3389 25.5	5197 38.0	6575 55
6	58°15.5	4 59°19.1	491 62°10.9	1707 66°55.7	3419 73°33.0	5225 81°46.8	6592 54
7	15.7	6 21.0	506 14.8	1732 67 1.4	3450 40.5	5253 55.6	6608 53
8	15.9	7 23.0	520 18.6	1758 7.1	3481 48.0	5281 82 4.5	6623 52
9	16.2	9 25.1	535 22.5	1783 12.9	3512 55.6	5308 13.4	6639 51
10	16.5	11 27.1	551 26.4	1809 18.7	3542 74 3.2	5336 22.3	6654 50
11	58°16.8	14 59°29.2	566 62°30.3	1835 67°24.5	3573 74°10.8	5363 82°31.2	6669 49
12	17.1	16 31.3	582 34.3	1861 30.4	3604 18.5	5391 40.1	6684 48
13	17.5	19 33.5	598 38.3	1887 36.3	3635 26.2	5418 49.1	6698 47
14	17.9	22 35.6	614 42.3	1914 42.3	3666 33.9	5445 58.0	6712 46
15	18.3	26 37.8	630 46.4	1940 48.2	3696 41.6	5472 83 7.0	6726 45
16	58°18.7	29 59°40.1	647 62°50.5	1967 67°54.2	3727 74°49.4	5498 83°16.0	6739 44
17	19.2	33 42.3	663 54.6	1993 68 0.3	3758 57.1	5525 24.9	6753 43
18	19.8	37 44.6	680 58.7	2020 6.3	3789 75 4.9	5551 34.0	6766 42
19	20.3	41 47.0	698 63 2.9	2047 12.4	3820 12.8	5577 43.0	6778 41
20	20.9	46 49.3	715 7.1	2074 18.5	3851 20.6	5603 52.0	6791 40
21	58°21.5	50 59°51.7	733 63°11.4	2101 68°24.7	3881 75°28.5	5629 84° 1.0	6803 39
22	22.1	55 54.1	750 15.7	2129 30.9	3912 36.4	5655 10.1	6815 38
23	22.8	60 56.5	768 20.0	2156 37.1	3943 44.4	5681 19.2	6826 37
24	23.4	66 59.0	786 24.3	2184 43.3	3974 52.3	5706 28.2	6838 36
25	24.2	71 60 1.6	804 28.7	2211 49.6	4005 76 0.3	5732 37.3	6849 35
26	58°24.9	77 60° 4.1	823 63°33.1	2239 68°55.9	4036 76° 8.3	5757 84°46.4	6859 34
27	25.7	83 6.7	842 37.6	2267 69 2.3	4066 16.4	5782 55.5	6870 33
28	26.5	90 9.3	861 42.1	2295 8.6	4097 24.4	5806 85 4.7	6880 32
29	27.3	96 11.9	880 46.7	2323 15.0	4128 * 32.5	5831 13.8	6889 31
30	28.2	103 14.6	899 51.2	2351 21.5	4159 40.6	5855 22.9	6899 30
31	58°29.1	109 60°17.3	918 63°55.7	2379 69°27.9	4189 76°48.8	5879 85°32.1	6908 29
32	30.0	117 20.0	938 64 0.3	2408 34.4	4220 56.9	5903 41.2	6917 28
33	31.0	124 22.7	958 4.9	2436 41.0	4250 77 5.1	5927 50.4	6926 27
34	32.0	132 25.5	978 9.6	2465 47.5	4281 13.3	5951 59.6	6934 26
35	33.0	139 28.3	998 14.3	2494 54.1	4311 21.5	5974 86 8.7	6942 25
36	58°34.0	148 60°31.2	1018 64°19.0	2522 70° 0.7	4342 77°29.8	5998 86°17.9	6950 24
37	35.1	156 34.1	1039 23.8	2551 7.4	4372 38.0	6021 27.1	6957 23
38	36.2	164 37.0	1060 28.5	2580 14.0	4403 46.4	6043 36.3	6964 22
39	37.3	173 39.9	1080 33.4	2609 20.8	4433 54.7	6066 45.6	6971 21
40	38.5	182 42.9	1101 38.2	2638 27.5	4464 78 3.0	6089 54.8	6977 20
41	58°39.7	191 60°45.9	1123 64°43.1	2668 70°34.3	4494 78°11.4	6111 87° 4.0	6983 19
42	40.9	201 48.9	1144 48.0	2697 41.1	4524 19.7	6133 13.2	6989 18
43	42.1	210 52.0	1166 53.0	2726 47.9	4554 28.1	6155 22.5	6995 17
44	43.4	220 55.1	1187 58.0	2756 54.8	4584 36.6	6176 31.7	7000 16
45	44.7	230 58.2	1209 65 3.0	2785 71 1.6	4614 45.0	6197 40.9	7005 15
46	58°46.0	240 61° 1.3	1231 65° 8.0	2815 71° 8.5	4644 78°53.5	6219 87°50.2	7009 14
47	47.4	251 4.5	1254 13.1	2845 15.5	4674 79 2.0	6240 59.4	7013 13
48	48.8	262 7.7	1276 18.2	2874 22.5	4704 10.5	6260 88 8.7	7017 12
49	50.2	273 11.0	1299 23.4	2904 29.5	4734 19.0	6281 18.0	7021 11
50	51.7	284 14.3	1321 28.5	2934 36.5	4763 27.5	6301 27.2	7024 10
51	58°53.2	295 61°17.6	1344 65°33.7	2964 71°43.6	4793 79°36.1	6321 88°36.5	7027 9
52	54.7	306 20.9	1367 39.0	2994 50.7	4822 44.7	6341 45.7	7030 8
53	56.3	318 24.3	1391 44.2	3024 57.8	4852 53.3	6360 55.0	7032 7
54	57.8	330 27.7	1414 49.6	3054 72 4.9	4881 80 1.9	6380 89 4.3	7034 6
55	59.4	342 31.1	1438 54.9	3084 12.1	4910 10.6	6399 13.6	7036 5
56	59° 1.1	355 61°34.6	1461 66° 0.3	3115 72°19.3	4939 80°19.2	6417 89°22.9	7038 4
57	2.7	368 38.1	1485 5.6	3145 26.5	4968 27.9	6436 32.2	7039 3
58	4.4	380 41.6	1509 11.1	3175 33.8	4997 36.6	6454 41.4	7039 2
59	6.2	393 45.2	1533 16.5	3206 41.1	5026 45.3	6472 50.7	7040 1
60	7.9	407 48.8	1558 22.0	3236 48.4	5055 54.0	6490 90 0.0	7040 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	58°30·0	0	59°22·7	401	62° 2·7	1535	66°34·3	3187	72°57·9	4975	80°59·3	6384	60
1	30·0	0	24·4	414	6·3	1559	39·8	3217	73 5·2	5003	81 7·9	6401	59
2	30·1	0	26·3	427	9·9	1583	45·3	3247	12·5	5031	16·6	6418	58
3	30·1	1	28·1	441	13·6	1607	50·9	3277	19·9	5059	25·3	6435	57
4	30·2	2	30·0	455	17·3	1632	56·5	3307	27·2	5087	34·0	6452	56
5	30·4	3	31·9	469	21·0	1657	67 2·1	3337	34·6	5114	42·8	6468	55
6	58°30·5	4	59°33·8	483	62°24·8	1682	67° 7·7	3367	73°42·1	5142	81°51·5	6484	54
7	30·7	6	35·7	498	28·6	1707	13·4	3397	49·5	5169	82 0·3	6499	53
8	30·9	7	37·7	513	32·4	1732	19·1	3428	57·0	5197	9·1	6515	52
9	31·2	9	39·7	528	36·2	1757	24·9	3458	74 4·5	5224	17·9	6530	51
10	31·5	11	41·8	543	40·1	1783	30·6	3488	12·0	5251	26·7	6545	50
11	58°31·8	14	59°43·9	558	62°44·0	1808	67°36·4	3518	74°19·6	5278	82°35·5	6559	49
12	32·1	16	46·0	574	48·0	1834	42·3	3549	27·2	5305	44·3	6574	48
13	32·5	19	48·1	589	52·0	1860	48·1	3579	34·8	5331	53·2	6588	47
14	32·9	22	50·3	605	56·0	1886	54·0	3609	42·4	5358	83 2·1	6602	46
15	33·3	25	52·5	621	63 0·0	1912	59·9	3640	50·1	5384	11·0	6615	45
16	58°33·7	29	59°54·7	638	63° 4·1	1938	68° 5·9	3670	74°57·8	5411	83°19·9	6628	44
17	34·2	33	56·9	654	8·2	1964	11·9	3700	75 5·5	5437	28·8	6641	43
18	34·7	37	59·2	671	12·3	1990	17·9	3730	13·3	5462	37·7	6654	42
19	35·3	40	60 1·5	688	16·5	2016	23·9	3761	21·0	5488	46·6	6667	41
20	35·8	45	3·9	705	20·7	2043	30·0	3792	28·8	5514	55·6	6679	40
21	58°36·4	49	60° 6·3	722	63°24·9	2070	68°36·1	3822	75°36·7	5539	84° 4·5	6691	39
22	37·1	54	8·7	739	29·1	2097	42·3	3852	44·5	5564	13·5	6703	38
23	37·7	60	11·1	757	33·4	2124	48·5	3882	52·4	5589	22·5	6714	37
24	38·4	65	13·6	775	37·8	2151	54·7	3913	76 0·3	5614	31·5	6725	36
25	39·1	70	16·1	793	42·1	2179	69 0·9	3943	8·2	5639	40·5	6736	35
26	58°39·9	76	60°18·6	811	63°46·5	2206	69° 7·2	3973	76°16·1	5664	84°49·5	6746	34
27	40·6	82	21·2	830	50·9	2233	13·5	4003	24·1	5688	58·5	6756	33
28	41·4	88	23·7	849	55·4	2260	19·8	4034	32·1	5713	85 7·5	6766	32
29	42·3	95	26·4	867	59·8	2288	26·1	4064	40·1	5737	16·6	6776	31
30	43·1	102	29·0	886	64 4·3	2316	32·5	4094	48·1	5761	25·6	6785	30
31	58°44·0	108	60°31·7	905	64° 8·9	2344	69°38·9	4124	76°56·2	5785	85°34·7	6794	29
32	44·9	115	34·4	924	13·5	2372	45·4	4155	77 4·3	5808	43·7	6802	28
33	45·9	122	37·1	944	18·1	2400	51·9	4185	12·4	5832	52·8	6811	27
34	46·9	130	39·9	964	22·7	2428	58·4	4215	20·5	5855	86 1·9	6819	26
35	47·9	137	42·7	984	27·4	2457	70 4·9	4244	28·7	5878	11·0	6827	25
36	58°48·9	146	60°45·5	1004	64°32·1	2485	70°11·5	4274	77°36·8	5901	86°20·1	6835	24
37	50·0	154	48·4	1024	36·8	2513	18·1	4304	45·0	5923	29·2	6842	23
38	51·1	162	51·3	1044	41·6	2542	24·7	4334	53·3	5946	38·3	6848	22
39	52·2	171	54·2	1064	46·4	2570	31·3	4364	78 1·5	5968	47·5	6855	21
40	53·4	179	57·2	1085	51·2	2599	38·0	4394	9·8	5990	56·6	6862	20
41	58°54·6	188	61° 0·2	1106	64°56·0	2628	70°44·8	4424	78°18·1	6012	87° 5·7	6868	19
42	55·8	198	3·2	1128	65 0·9	2657	51·5	4453	26·4	6033	14·8	6873	18
43	57·0	207	6·2	1149	5·9	2685	58·3	4483	34·7	6054	24·0	6879	17
44	58·3	217	9·3	1171	10·8	2714	71 5·1	4513	43·0	6075	33·1	6884	16
45	59·6	227	12·4	1192	15·8	2743	11·9	4542	51·4	6096	42·3	6889	15
46	59° 0·9	237	61°15·5	1214	65°20·8	2773	71°18·8	4571	78°59·8	6117	87°51·5	6893	14
47	2·3	248	18·7	1236	25·9	2802	25·7	4601	79 8·2	6138	88 0·6	6897	13
48	3·7	258	21·9	1258	30·9	2831	32·6	4630	16·6	6159	9·8	6901	12
49	5·1	268	25·1	1280	36·0	2860	39·5	4659	25·1	6178	19·0	6905	11
50	6·5	280	28·4	1302	41·2	2890	46·5	4688	33·5	6198	28·1	6908	10
51	59° 8·0	290	61°31·7	1325	65°46·4	2919	71°53·5	4717	79°42·0	6218	88°37·3	6911	9
52	9·5	302	35·0	1348	51·6	2948	72 0·6	4747	50·5	6237	46·5	6913	8
53	11·1	314	38·3	1371	56·8	2978	7·6	4775	59·1	6256	55·7	6916	7
54	12·6	326	41·7	1394	66 2·1	3008	14·7	4804	80 7·6	6275	89 4·9	6918	6
55	14·2	337	45·2	1417	7·4	3038	21·9	4833	16·2	6294	14·0	6920	5
56	59°15·9	350	61°48·6	1440	66°12·7	3067	72°29·0	4862	80°24·8	6313	89°23·2	6921	4
57	17·5	363	52·1	1464	18·1	3097	36·2	4890	33·4	6331	32·4	6922	3
58	19·2	375	55·6	1487	23·5	3127	43·4	4919	42·0	6349	41·6	6923	2
59	20·9	388	59·1	1511	28·9	3157	50·6	4947	50·6	6366	50·8	6923	1
60	22·7	401	62 2·7	1535	34·3	3187	57·9	4975	59·3	6384	90 0·0	6923	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H		1 H		2 H		3 H		4 H		5 H		
0	58°45-0	0	59°37-4	395	62°16-6	1512	66°46-6	3138	73° 7-3	4896	81° 4-5	6279	60
1	45-0	0	39-2	408	20-2	1536	52-1	3168	14-5	4923	13-1	6296	59
2	45-1	0	41-0	421	23-8	1560	57-5	3197	21-8	4951	21-7	6312	58
3	45-1	1	42-8	435	27-5	1584	67 3-0	3227	29-1	4978	30-3	6329	57
4	45-2	2	44-7	449	31-2	1608	8-6	3256	36-4	5005	38-9	6345	56
5	45-4	3	46-6	463	34-9	1633	14-2	3286	43-7	5033	47-6	6361	55
6	58°45-5	4	59°48-5	477	62°38-6	1657	67°19-8	3316	73°51-1	5060	81°56-2	6376	54
7	45-7	5	50-4	491	42-4	1682	25-4	3345	58-5	5086	82 4-9	6392	53
8	45-9	7	52-4	505	46-2	1706	31-1	3375	74 5-9	5113	13-6	6407	52
9	46-2	9	54-4	520	50-0	1731	36-8	3405	13-4	5140	22-3	6422	51
10	46-5	11	56-5	535	53-8	1756	42-5	3434	20-8	5167	31-1	6436	50
11	58°46-8	13	59°58-5	550	62°57-7	1781	67°48-3	3464	74°28-3	5193	82°39-8	6451	49
12	47-1	16	60 0-6	565	63 1-7	1807	54-1	3494	35-9	5219	48-5	6465	48
13	47-5	19	2-7	581	5-6	1832	59-9	3524	43-4	5245	57-3	6479	47
14	47-9	22	4-9	597	9-6	1858	68 5-7	3554	51-0	5271	83 6-1	6492	46
15	48-3	25	7-1	612	13-6	1883	11-6	3583	58-6	5297	14-9	6506	45
16	58°48-7	29	60° 9-3	628	63°17-7	1909	68°17-5	3613	75° 6-2	5323	83°23-7	6519	44
17	49-2	32	11-5	645	21-8	1935	23-5	3643	13-9	5349	32-5	6531	43
18	49-7	36	13-8	661	25-9	1961	29-5	3673	21-6	5374	41-4	6544	42
19	50-2	40	16-1	678	30-0	1987	35-5	3703	29-3	5400	50-2	6556	41
20	50-8	44	18-4	695	34-2	2013	41-5	3732	37-0	5425	59-1	6568	40
21	58°51-4	49	60°20-8	712	63°38-4	2039	68°47-6	3762	75°44-7	5450	84° 7-9	6580	39
22	52-0	54	23-2	729	42-6	2066	53-7	3792	52-5	5475	16-8	6591	38
23	52-7	59	25-6	747	46-9	2093	59-8	3822	76 0-3	5499	25-7	6602	37
24	53-4	64	28-1	764	51-2	2119	69 5-9	3852	8-1	5524	34-7	6613	36
25	54-1	69	30-6	782	55-5	2146	12-1	3881	16-0	5548	43-6	6624	35
26	58°54-8	75	60°33-1	800	63°59-8	2173	69°18-4	3911	76°23-9	5572	84°52-5	6634	34
27	55-6	81	35-6	818	64 4-2	2200	24-6	3941	31-8	5596	85 1-4	6644	33
28	56-4	87	38-2	836	8-6	2227	30-9	3971	39-7	5620	10-4	6654	32
29	57-2	93	40-8	855	13-1	2254	37-2	4000	47-6	5644	19-3	6663	31
30	58-1	100	43-4	873	17-6	2281	43-5	4030	55-6	5667	28-3	6672	30
31	58°59-0	107	60°46-1	892	64°22-1	2309	69°49-9	4060	77° 3-6	5691	85°37-3	6681	29
32	59-9	113	48-8	911	26-6	2336	56-3	4089	11-6	5714	46-2	6689	28
33	59 0-8	121	51-5	930	31-2	2364	70 2-7	4119	19-6	5737	55-2	6698	27
34	1-8	128	54-3	950	35-8	2392	9-2	4148	27-7	5759	86 4-2	6706	26
35	2-8	136	57-1	969	40-5	2419	15-7	4178	35-8	5782	13-2	6713	25
36	59° 3-8	144	60°59-9	989	64°45-1	2447	70°22-2	4208	77°43-9	5805	86°22-2	6721	24
37	4-9	152	61 2-7	1009	49-8	2475	28-7	4237	52-0	5827	31-3	6728	23
38	6-0	160	5-6	1029	54-6	2503	35-3	4266	78 0-2	5849	40-3	6734	22
39	7-1	168	8-5	1049	59-3	2531	41-9	4296	8-3	5871	49-3	6741	21
40	8-3	177	11-5	1070	65 4-1	2560	48-6	4325	16-5	5892	58-3	6747	20
41	59° 9-4	186	61°14-4	1090	65° 9-0	2588	70°55-2	4354	78°24-7	5913	87° 7-4	6753	19
42	10-6	195	17-4	1111	13-8	2616	71 1-9	4383	33-0	5935	16-4	6759	18
43	11-9	204	20-5	1132	18-7	2645	8-6	4412	41-2	5956	25-5	6764	17
44	13-2	214	23-5	1153	23-6	2673	15-4	4441	49-5	5976	34-5	6769	16
45	14-4	224	26-6	1174	28-6	2702	22-2	4470	57-8	5997	43-6	6774	15
46	59°15-8	233	61°29-7	1196	65°33-6	2731	71°29-0	4499	79° 6-1	6017	87°52-7	6778	14
47	17-1	244	32-9	1217	38-6	2759	35-8	4528	14-4	6037	88 1-7	6782	13
48	18-5	254	36-1	1239	43-6	2788	42-7	4557	22-8	6057	10-8	6786	12
49	19-9	264	39-3	1261	48-7	2817	49-6	4585	31-1	6077	19-9	6789	11
50	21-4	276	42-5	1283	53-8	2846	56-5	4614	39-5	6097	29-0	6792	10
51	59°22-8	287	61°45-8	1306	65°58-9	2875	72° 3-5	4643	79°48-0	6116	88°38-1	6795	9
52	24-3	298	49-1	1328	66 4-1	2904	10-5	4671	56-4	6135	47-2	6798	8
53	25-9	309	52-4	1350	9-3	2933	17-5	4699	80 4-8	6154	56-3	6801	7
54	27-4	321	55-8	1373	14-5	2962	24-5	4728	13-3	6172	89 5-4	6802	6
55	29-0	333	59-2	1396	19-8	2992	31-6	4756	21-8	6191	14-5	6804	5
56	59°30-6	345	62° 2-6	1419	66°25-1	3021	72°38-7	4784	80°30-3	6209	89°23-6	6805	4
57	32-3	357	6-1	1442	30-4	3050	45-8	4812	38-8	6227	32-7	6806	3
58	34-0	370	9-6	1465	35-8	3079	52-9	4840	47-3	6244	41-8	6807	2
59	35-7	382	13-1	1489	41-2	3109	73 0-1	4868	55-9	6262	50-9	6808	1
60	37-4	395	16-6	1512	46-6	3138	7-3	4896	81 4-5	6279	90 0-0	6808	0
	11 H		10 H		9 H		8 H		7 H		6 H		m

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	59° 0-0	0 59° 52-2	389 62° 30-6	1490 66° 58-8	3090 73° 16-7	4817 81° 9-6	6174 60
1	0-0	0 53-9	402 34-1	1513 67 4-3	3119 23-9	4844 18-1	6191 59
2	0-1	0 55-7	415 37-7	1537 9-7	3148 31-1	4871 26-7	6207 58
3	0-1	1 57-5	428 41-3	1560 15-2	3177 38-3	4898 35-2	6223 57
4	0-2	2 59-4	442 45-0	1584 20-7	3206 45-5	4925 43-8	6239 56
5	0-4	3 60 1-3	455 48-7	1608 26-2	3235 52-8	4951 52-3	6255 55
6	59° 0-5	4 60° 3-2	469 62° 52-4	1632 67° 31-8	3265 74° 0-1	4977 82° 0-9	6270 54
7	0-7	5 5-1	483 56-1	1657 37-4	3294 7-5	5004 9-5	6285 53
8	0-9	7 7-1	498 59-9	1681 43-0	3323 14-8	5031 18-1	6300 52
9	1-2	9 9-1	512 63 3-7	1705 48-7	3352 22-2	5057 26-8	6315 51
10	1-4	11 11-1	527 7-5	1730 54-4	3381 29-6	5083 35-4	6329 50
11	59° 1-7	13 60° 13-2	542 63° 11-4	1755 68° 0-1	3410 74° 37-0	5109 82° 44-1	6343 49
12	2-1	16 15-2	557 15-3	1780 5-8	3439 44-5	5135 52-7	6357 48
13	2-4	18 17-4	573 19-3	1805 11-6	3469 52-0	5160 83 1-4	6371 47
14	2-8	21 19-5	588 23-3	1830 17-4	3498 59-5	5186 10-1	6384 46
15	3-3	25 21-7	604 27-3	1855 23-3	3528 75 7-0	5212 18-8	6397 45
16	59° 3-7	28 60° 23-9	619 63° 31-3	1880 68° 29-1	3557 75° 14-6	5237 83° 27-6	6410 44
17	4-2	32 26-1	635 35-3	1906 35-0	3586 22-2	5262 36-3	6422 43
18	4-7	36 28-4	652 39-4	1932 41-0	3616 29-8	5287 45-1	6435 42
19	5-3	39 30-7	668 43-5	1957 47-0	3645 37-4	5312 53-8	6447 41
20	5-8	44 33-0	685 47-6	1983 52-9	3674 45-1	5336 84 2-6	6458 40
21	59° 6-5	48 60° 35-3	701 63° 51-8	2009 68° 59-0	3704 75° 52-8	5361 84° 11-4	6470 39
22	7-1	53 37-7	718 56-0	2035 69 5-0	3733 76 0-5	5386 20-2	6481 38
23	7-7	58 40-1	735 64 0-3	2061 11-1	3762 8-2	5410 29-0	6492 37
24	8-3	63 42-6	752 4-5	2087 17-2	3792 16-0	5434 37-8	6503 36
25	9-0	68 45-1	770 8-8	2114 23-4	3821 23-8	5458 46-7	6513 35
26	59° 9-8	74 60° 47-6	788 64° 13-1	2141 69° 29-5	3850 76° 31-6	5482 84° 55-5	6523 34
27	10-5	80 50-1	805 17-5	2167 35-7	3879 39-5	5505 85 4-3	6533 33
28	11-3	86 52-6	824 21-9	2194 42-0	3909 47-3	5528 13-2	6542 32
29	12-2	92 55-2	842 26-3	2220 48-2	3938 55-1	5551 22-1	6551 31
30	13-0	98 57-9	860 30-8	2247 54-5	3967 77 3-0	5574 30-9	6560 30
31	59° 13-9	105 61° 0-5	879 64° 35-3	2274 70° 0-8	3996 77° 11-0	5597 85° 39-8	6569 29
32	14-8	112 3-2	898 39-8	2301 7-2	4025 18-9	5620 48-7	6577 28
33	15-7	119 5-9	917 44-3	2328 13-6	4054 26-9	5643 57-6	6585 27
34	16-7	126 8-6	936 48-9	2355 20-0	4083 34-9	5665 86 6-5	6593 26
35	17-7	134 11-4	955 53-5	2383 26-4	4112 42-9	5687 15-4	6601 25
36	59° 18-7	141 61° 14-2	974 64° 58-2	2410 70° 32-9	4141 77° 50-9	5709 86° 24-4	6608 24
37	19-8	149 17-1	994 65 2-8	2437 39-4	4170 58-9	5731 33-3	6615 23
38	20-9	158 19-9	1013 7-5	2465 45-9	4198 78 7-0	5753 42-2	6622 22
39	22-0	166 22-8	1033 12-3	2493 52-5	4227 15-1	5774 51-2	6628 21
40	23-1	174 25-7	1054 17-0	2521 59-0	4256 23-2	5795 87 0-1	6634 20
41	59° 24-3	183 61° 28-7	1074 65° 21-8	2548 71° 5-6	4285 78° 31-4	5816 87° 9-1	6640 19
42	25-5	192 31-7	1095 26-7	2576 12-3	4314 39-5	5837 18-1	6645 18
43	26-8	201 34-7	1115 31-5	2604 19-0	4342 47-7	5858 27-0	6650 17
44	28-0	211 37-7	1136 36-4	2632 25-7	4371 55-9	5878 36-0	6655 16
45	29-3	220 40-8	1157 41-3	2660 32-4	4399 79 4-1	5898 45-0	6660 15
46	59° 30-6	230 61° 43-9	1178 65° 46-3	2689 71° 39-2	4428 79° 12-3	5918 87° 54-0	6664 14
47	32-0	240 47-0	1200 51-3	2717 45-9	4456 20-6	5938 88 2-9	6668 13
48	33-4	250 50-2	1221 56-3	2745 52-8	4484 28-9	5958 11-9	6672 12
49	34-8	261 53-4	1242 66 1-3	2774 59-6	4512 37-2	5977 20-9	6675 11
50	36-2	272 56-6	1264 6-4	2802 72 6-5	4540 45-5	5996 29-9	6678 10
51	59° 37-7	283 61° 59-9	1287 66° 11-5	2831 72° 13-4	4568 79° 53-8	6015 88° 38-9	6681 9
52	39-2	293 62 3-2	1309 16-6	2859 20-3	4596 80 2-2	6033 47-9	6683 8
53	40-7	305 6-5	1331 21-8	2888 27-2	4624 10-5	6052 56-9	6686 7
54	42-2	316 9-8	1353 27-0	2917 34-2	4652 18-9	6070 89 5-9	6688 6
55	43-8	328 13-2	1375 32-2	2945 41-2	4680 27-3	6088 14-9	6690 5
56	59° 45-4	340 62° 16-6	1398 66° 37-5	2974 72° 48-3	4708 80° 35-8	6106 89° 24-0	6691 4
57	47-1	352 20-1	1421 42-8	3003 55-3	4735 44-2	6124 33-0	6692 3
58	48-7	364 23-5	1444 48-1	3032 73 2-4	4762 52-7	6141 42-0	6693 2
59	50-5	376 27-0	1467 53-5	3061 9-5	4790 81 1-1	6158 51-0	6693 1
60	52-2	389 30-6	1490 58-8	3090 16-7	4817 9-6	6174 90 0-0	6693 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H							
0	59°15'0	0	60° 6'9	384	62°44'5	1468	67°11'1	3042	73°26'0	4739	81°14'8	6071	60
1	15'0	0	8'7	396	48'0	1491	16'4	3070	33'1	4766	23'2	6087	59
2	15'1	0	10'5	409	51'6	1514	21'8	3099	40'3	4792	31'6	6103	58
3	15'1	1	12'3	422	55'2	1537	27'3	3127	47'5	4818	40'1	6119	57
4	15'2	2	14'1	436	58'8	1561	32'7	3156	54'7	4845	48'6	6135	56
5	15'4	3	16'0	449	63 2'5	1584	38'2	3185	74 1'9	4871	57'1	6150	55
6	59°15'5	4	60°17'9	463	63° 6'2	1608	67°43'8	3213	74° 9'1	4897	82° 5'6	6165	54
7	15'7	5	19'8	477	9'9	1632	49'3	3242	16'4	4923	14'1	6180	53
8	15'9	7	21'8	491	13'7	1656	54'9	3271	23'7	4949	22'6	6195	52
9	16'1	9	23'8	505	17'5	1680	68 0'5	3299	31'0	4975	31'2	6209	51
10	16'4	11	25'8	519	21'3	1704	6'2	3328	38'3	5000	39'8	6223	50
11	59°16'7	13	60°27'8	534	63°25'1	1728	68°11'9	3357	74°45'7	5026	82°48'3	6237	49
12	17'1	16	29'9	549	29'0	1753	17'6	3386	53'1	5051	56'9	6250	48
13	17'4	18	32'0	564	32'9	1777	23'3	3415	75 0'5	5076	83 5'5	6264	47
14	17'8	21	34'1	579	36'8	1802	29'1	3443	8'0	5101	14'1	6277	46
15	18'2	24	36'3	595	40'8	1827	34'9	3472	15'5	5126	22'8	6289	45
16	59°18'7	28	60°38'5	610	63°44'8	1852	68°40'7	3501	75°23'0	5151	83°31'4	6302	44
17	19'2	31	40'7	626	48'8	1877	46'6	3530	30'5	5176	40'1	6314	43
18	19'7	35	42'9	642	52'9	1902	52'5	3559	38'0	5200	48'7	6326	42
19	20'2	39	45'2	658	57'0	1927	58'4	3587	45'6	5225	57'4	6338	41
20	20'8	43	47'5	674	64 1'1	1953	69 4'3	3616	53'2	5249	84 6'1	6350	40
21	59°21'4	48	60°49'9	691	64° 5'2	1978	69°10'3	3645	76° 0'8	5273	84°14'8	6361	39
22	22'0	52	52'3	708	9'4	2004	16'3	3674	8'5	5297	23'5	6372	38
23	22'6	57	54'7	725	13'6	2030	22'4	3703	16'1	5321	32'3	6382	37
24	23'3	62	57'1	742	17'9	2056	28'4	3731	23'8	5345	41'0	6393	36
25	24'0	67	59'5	759	22'1	2082	34'5	3760	31'5	5368	49'7	6403	35
26	59°24'7	73	61° 2'0	776	64°26'4	2108	69°40'7	3789	76°39'3	5391	84°58'5	6413	34
27	25'5	79	4'5	794	30'8	2134	46'8	3818	47'0	5414	85 7'2	6422	33
28	26'3	85	7'1	812	35'2	2160	53'0	3846	54'8	5437	16'0	6432	32
29	27'1	91	9'7	830	39'6	2186	59'2	3875	77 2'6	5460	24'8	6441	31
30	28'0	97	12'3	848	44'0	2213	70 5'5	3904	10'4	5483	33'6	6450	30
31	59°28'8	103	61°14'9	866	64°48'4	2239	70°11'7	3932	77°18'3	5505	85°42'4	6458	29
32	29'7	110	17'6	884	52'9	2266	18'0	3961	26'2	5527	51'2	6467	28
33	30'7	117	20'3	903	57'4	2293	24'4	3990	34'1	5550	86 0'0	6475	27
34	31'6	124	23'0	922	65 2'0	2320	30'7	4018	42'0	5572	8'8	6482	26
35	32'6	132	25'8	941	6'6	2346	37'1	4047	49'9	5593	17'7	6489	25
36	59°33'7	139	61°28'5	960	65°11'2	2373	70°43'5	4075	77°57'9	5615	86°26'5	6496	24
37	34'7	147	31'3	979	15'8	2400	50'0	4103	78 5'8	5636	35'3	6503	23
38	35'8	155	34'2	999	20'5	2428	56'5	4132	13'8	5657	44'2	6510	22
39	36'9	163	37'1	1019	25'2	2455	71 3'0	4160	21'9	5678	53'0	6516	21
40	38'0	172	40'0	1038	29'9	2482	9'5	4188	29'9	5699	87 1'9	6522	20
41	59°39'2	180	61°42'9	1058	65°34'7	2510	71°16'1	4217	78°38'0	5720	87°10'8	6528	19
42	40'4	189	45'9	1079	39'5	2537	22'7	4245	46'1	5740	19'6	6533	18
43	41'6	198	48'9	1099	44'3	2564	29'3	4273	54'2	5760	28'5	6538	17
44	42'9	208	51'9	1119	49'2	2592	35'9	4301	79 2'3	5780	37'4	6543	16
45	44'2	217	55'0	1140	54'1	2620	42'6	4329	10'4	5800	46'3	6547	15
46	59°45'5	227	61°58'1	1161	65°59'0	2647	71°49'3	4357	79°18'6	5820	87°55'2	6551	14
47	46'8	237	62 1'2	1182	66 3'9	2675	56'0	4384	26'8	5839	88 4'1	6555	13
48	48'2	247	4'3	1203	8'9	2703	72 2'8	4412	35'0	5858	13'0	6559	12
49	49'6	257	7'5	1224	13'9	2731	9'6	4440	43'2	5877	21'9	6562	11
50	51'0	268	10'7	1245	19'0	2759	16'4	4468	51'4	5896	30'8	6566	10
51	59°52'5	278	62°14'0	1267	66°24'1	2787	72°23'2	4495	79°59'7	5915	88°39'7	6568	9
52	54'0	289	17'2	1289	29'2	2815	30'1	4523	80 8'0	5933	48'6	6571	8
53	55'5	300	20'5	1311	34'3	2843	37'0	4550	16'2	5951	57'5	6573	7
54	57'0	312	23'9	1333	39'4	2872	43'9	4577	24'6	5969	89 6'4	6575	6
55	58'6	323	27'2	1355	44'6	2900	50'9	4604	32'9	5986	15'3	6576	5
56	60° 0'2	335	62°30'6	1377	66°49'9	2928	72°57'9	4632	80°41'2	6004	89°24'3	6578	4
57	1'9	346	34'0	1400	55'1	2956	73 4'9	4658	49'6	6021	33'2	6579	3
58	3'5	359	37'5	1422	67 0'4	2985	11'9	4685	58'0	6038	42'2	6580	2
59	5'2	371	41'0	1445	5'7	3013	18'9	4712	81 6'4	6055	51'1	6580	1
60	6'9	384	44'5	1468	11'1	3042	26'0	4739	14'8	6071	90 0'0	6580	0
	11 H	10 H	9 H	8 H	7 H	6 H	m						

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	59°30'0	0 60°21'7	378 62°58'4	1445 67°23'2	2994 73°35'3	4662 81°19'9	5969 60
1	30'0	0 23'4	390 63° 1'9	1468 28'6	3022 42'4	4688 28'2	5985 59
2	30'1	0 25'2	403 5'4	1491 34'0	3050 49'5	4714 36'6	6001 58
3	30'1	1 27'0	416 9'0	1514 39'4	3078 56'6	4740 45'0	6016 57
4	30'2	2 28'8	429 12'6	1537 44'8	3106 74 3'7	4765 53'4	6031 56
5	30'4	3 30'7	443 16'3	1560 50'3	3135 10'9	4791 82 1'8	6046 55
6	59°30'5	4 60°32'6	456 63°19'9	1583 67°55'7	3163 74°18'1	4817 82°10'2	6061 54
7	30'7	5 34'5	469 23'6	1606 68 1'3	3191 25'3	4842 18'7	6076 53
8	30'9	7 36'4	483 27'4	1630 6'8	3219 32'5	4868 27'1	6090 52
9	31'2	9 38'4	498 31'1	1654 12'4	3247 39'8	4893 35'6	6104 51
10	31'4	11 40'4	512 34'9	1678 18'0	3276 47'1	4918 44'1	6117 50
11	59°31'7	13 60°42'4	526 63°38'7	1702 68°23'6	3304 74°54'4	4943 82°52'6	6131 49
12	32'1	15 44'5	541 42'6	1726 29'3	3333 75 1'7	4968 83 1'1	6144 48
13	32'4	18 46'6	555 46'5	1750 35'0	3361 9'0	4993 9'6	6158 47
14	32'8	21 48'7	571 50'4	1774 40'7	3389 16'4	5018 18'1	6171 46
15	33'2	24 50'9	586 54'3	1799 46'5	3417 23'9	5042 26'7	6183 45
16	59°33'7	27 60°53'1	601 63°58'3	1824 68°52'3	3446 75°31'3	5067 83°35'2	6195 44
17	34'1	31 55'3	617 64 2'3	1848 58'1	3474 38'7	5091 43'8	6207 43
18	34'6	34 57'5	632 6'4	1873 69 3'9	3502 46'2	5115 52'4	6219 42
19	35'2	38 59'8	648 10'4	1898 9'8	3530 53'7	5138 84 1'0	6230 41
20	35'7	42 61 2'1	665 14'5	1923 15'7	3559 76 1'3	5162 9'6	6242 40
21	59°36'3	47 61° 4'4	681 64°18'6	1948 69°21'6	3587 76° 8'8	5186 84°18'2	6253 39
22	36'9	51 6'8	697 22'8	1973 27'6	3615 16'4	5210 26'8	6264 38
23	37'6	56 9'2	713 27'0	1999 33'6	3644 24'0	5233 35'5	6274 37
24	38'2	61 11'6	730 31'2	2024 39'6	3672 31'6	5256 44'1	6284 36
25	38'9	66 14'0	748 35'4	2049 45'7	3700 39'3	5279 52'8	6294 35
26	59°39'7	72 61°16'5	765 64°39'7	2075 69°51'8	3728 76°46'9	5302 85° 1'4	6304 34
27	40'4	77 19'0	782 44'0	2101 57'9	3757 54'6	5325 10'1	6313 33
28	41'2	83 21'5	799 48'4	2127 70 4'0	3785 77 2'3	5347 18'8	6322 32
29	42'0	89 24'1	817 52'7	2153 10'2	3813 10'0	5369 27'5	6331 31
30	42'9	96 26'7	835 57'1	2179 16'4	3841 17'8	5391 36'2	6340 30
31	59°43'8	101 61°29'3	853 65° 1'6	2205 70°22'6	3869 77°25'6	5413 85°44'9	6348 29
32	44'7	109 32'0	871 6'0	2231 28'8	3897 33'4	5435 53'6	6356 28
33	45'6	116 34'6	889 10'5	2257 35'1	3926 41'2	5457 86 2'3	6364 27
34	46'6	122 37'4	908 15'0	2283 41'4	3954 49'1	5479 11'1	6372 26
35	47'6	130 40'1	927 19'6	2310 47'8	3981 56'9	5500 19'8	6379 25
36	59°48'6	137 61°42'9	946 65°24'2	2337 70°54'2	4009 78° 4'8	5521 86°28'6	6386 24
37	49'6	145 45'7	965 28'8	2363 71 0'6	4037 12'7	5542 37'4	6393 23
38	50'7	153 48'5	984 33'4	2390 7'0	4065 20'6	5563 46'1	6399 22
39	51'8	161 51'4	1003 38'1	2417 13'4	4093 28'6	5584 54'9	6405 21
40	52'9	169 54'3	1023 42'8	2444 19'9	4121 36'6	5604 87 3'7	6411 20
41	59°54'1	178 61°57'2	1043 65°47'5	2471 71°26'4	4148 78°44'6	5624 87°12'5	6416 19
42	55'3	186 62 0'1	1063 52'3	2498 33'0	4176 52'6	5644 21'2	6422 18
43	56'5	196 3'1	1083 57'1	2525 39'5	4204 79 0'6	5664 30'0	6427 17
44	57'8	205 6'1	1103 66 1'9	2552 46'1	4231 8'6	5684 38'8	6432 16
45	59'0	214 9'2	1123 6'8	2579 52'7	4259 16'7	5703 47'6	6436 15
46	60° 0'3	224 62°12'2	1143 66°11'7	2606 71°59'4	4286 79°24'8	5722 87°56'4	6440 14
47	1'7	233 15'3	1164 16'6	2634 72 6'1	4313 32'9	5741 88 5'2	6444 13
48	3'0	244 18'5	1185 21'5	2661 12'8	4340 41'0	5760 14'1	6447 12
49	4'4	253 21'6	1206 26'5	2689 19'5	4368 49'2	5779 22'9	6451 11
50	5'9	264 24'8	1227 31'5	2716 26'3	4395 57'3	5797 31'7	6454 10
51	60° 7'3	274 62°28'0	1248 66°36'5	2743 72°33'1	4422 80° 5'5	5815 88°40'5	6456 9
52	8'8	285 31'3	1269 41'6	2771 39'9	4449 13'7	5833 49'3	6459 8
53	10'3	296 34'6	1291 46'7	2799 46'7	4476 21'9	5851 58'2	6461 7
54	11'8	307 37'9	1313 51'8	2827 53'6	4503 30'1	5868 89 7'0	6463 6
55	13'4	318 41'2	1335 57'0	2855 73 0'5	4529 38'4	5886 15'8	6464 5
56	60°15'0	330 62°44'6	1357 67° 2'2	2882 73° 7'4	4556 80°46'7	5903 89°24'7	6466 4
57	16'6	342 48'0	1379 7'4	2910 14'3	4583 55'0	5920 33'5	6467 3
58	18'3	353 51'4	1401 12'7	2938 21'3	4609 81 3'3	5937 42'3	6468 2
59	20'0	366 54'9	1423 17'9	2966 28'3	4635 11'6	5953 51'2	6468 1
60	21'7	378 58'4	1445 23'2	2994 35'3	4662 19'9	5969 90 0'0	6468 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	59°45.0	0 60°36.4	372 63°12.2	1423 67°35.4	2947 73°44.6	4585 81°25.0	5868 60
1	45.0	0 38.2	385 15.7	1446 40.7	2974 51.6	4611 33.3	5883 59
2	45.1	0 39.9	397 19.3	1468 46.0	3002 58.6	4636 41.6	5899 58
3	45.1	1 41.7	410 22.8	1491 51.4	3029 74 5.7	4662 49.9	5914 57
4	45.2	2 43.5	423 26.4	1513 56.8	3057 12.8	4687 58.2	5929 56
5	45.4	3 45.4	436 30.0	1536 68 2.2	3085 19.9	4712 82 6.5	5944 55
6	59°45.5	4 60°47.3	449 63°33.7	1559 68° 7.7	3112 74°27.0	4737 82°14.8	5958 54
7	45.7	5 49.2	463 37.4	1582 13.1	3140 34.1	4762 23.2	5972 53
8	45.9	7 51.1	476 41.1	1605 18.6	3168 41.3	4787 31.6	5986 52
9	46.2	8 53.1	490 44.8	1629 24.2	3196 48.5	4812 40.0	6000 51
10	46.4	11 55.1	504 48.6	1652 29.8	3223 55.7	4837 48.4	6014 50
11	59°46.7	13 60°57.1	518 63°52.4	1676 68°35.4	3251 75° 3.0	4861 82°56.8	6027 49
12	47.0	15 59.1	533 56.2	1700 41.0	3279 10.2	4886 83 5.2	6040 48
13	47.4	18 61 1.2	547 64 0.1	1723 46.6	3307 17.5	4910 13.6	6053 47
14	47.8	21 3.3	562 4.0	1747 52.3	3335 24.9	4934 22.1	6065 46
15	48.2	23 5.5	577 7.9	1771 58.0	3363 32.2	4958 30.6	6078 45
16	59°48.6	27 61° 7.6	592 64°11.8	1796 69° 3.8	3390 75°39.6	4982 83°39.0	6090 44
17	49.1	30 9.8	608 15.8	1820 9.6	3418 47.0	5006 47.5	6101 43
18	49.6	34 12.1	623 19.8	1844 15.4	3446 54.4	5029 56.0	6113 42
19	50.1	38 14.3	639 23.9	1869 21.2	3474 76 1.8	5053 84 4.5	6124 41
20	50.7	42 16.6	655 27.9	1893 27.1	3502 9.3	5076 13.0	6135 40
21	59°51.3	46 61°18.9	671 64°32.0	1918 69°33.0	3529 76°16.8	5100 84°21.6	6146 39
22	51.9	51 21.3	687 36.2	1943 38.9	3557 24.3	5123 30.1	6157 38
23	52.5	55 23.6	703 40.3	1968 44.8	3585 31.8	5146 38.7	6167 37
24	53.2	60 26.0	719 44.5	1993 50.8	3613 39.4	5168 47.2	6177 36
25	53.9	65 28.5	736 48.7	2018 56.8	3641 46.9	5191 55.8	6187 35
26	59°54.6	71 61°30.9	753 64°53.0	2043 70° 2.8	3668 76°54.5	5213 85° 4.4	6196 34
27	55.4	76 33.4	770 57.3	2069 8.9	3696 77 2.2	5235 13.0	6205 33
28	56.2	82 35.0	787 65 1.6	2094 15.0	3724 9.8	5258 21.6	6214 32
29	57.0	88 38.5	805 5.9	2119 21.1	3752 17.5	5280 30.2	6223 31
30	57.8	94 41.1	822 10.3	2145 27.3	3779 25.2	5301 38.8	6231 30
31	59°58.7	100 61°43.7	840 65°14.7	2171 70°33.4	3807 77°32.9	5323 85°47.4	6240 29
32	59.6	107 46.3	858 19.1	2196 39.6	3834 40.6	5345 56.1	6248 28
33	60 0.5	114 49.0	876 23.6	2222 45.9	3862 48.3	5366 86 4.7	6255 27
34	1.5	121 51.7	894 28.1	2248 52.1	3890 56.1	5387 13.4	6262 26
35	2.5	128 54.4	913 32.6	2274 58.4	3917 78 3.9	5408 22.0	6269 25
36	60° 3.5	135 61°57.2	931 65°37.1	2300 71° 4.7	3945 78°11.7	5429 86°30.7	6276 24
37	4.5	143 59.9	950 41.7	2326 11.1	3972 19.6	5449 39.4	6283 23
38	5.6	151 62 2.8	969 46.3	2353 17.5	3999 27.4	5470 48.0	6289 22
39	6.7	159 5.6	988 51.0	2379 23.9	4027 35.3	5490 56.7	6295 21
40	7.8	167 8.5	1007 55.7	2405 30.3	4054 43.2	5510 87 5.4	6301 20
41	60° 9.0	176 62°11.4	1027 66° 0.4	2432 71°36.8	4081 78°51.1	5529 87°14.1	6306 19
42	10.2	184 14.3	1046 5.1	2459 43.2	4108 59.0	5549 22.8	6311 18
43	11.4	193 17.3	1066 9.9	2485 49.8	4135 79 7.0	5569 31.5	6316 17
44	12.6	202 20.3	1086 14.7	2512 56.3	4162 15.0	5588 40.2	6321 16
45	13.9	210 23.3	1106 19.5	2539 72 2.9	4189 23.0	5607 48.9	6325 15
46	60°15.2	220 62°26.4	1126 66°24.3	2565 72° 9.5	4216 79°31.0	5626 87°57.6	6329 14
47	16.5	229 29.5	1146 29.2	2592 16.1	4243 39.0	5644 88 6.3	6333 13
48	17.9	240 32.6	1167 34.1	2619 22.7	4270 47.1	5663 15.1	6337 12
49	19.3	249 35.7	1187 39.1	2646 29.4	4296 55.1	5681 23.8	6340 11
50	20.7	260 38.9	1208 44.0	2673 36.1	4323 80 3.2	5699 32.6	6343 10
51	60°22.1	270 62°42.1	1229 66°49.0	2700 72°42.8	4350 80°11.3	5717 88°41.3	6345 9
52	23.6	281 45.3	1250 54.1	2728 49.6	4376 19.4	5735 50.0	6348 8
53	25.1	291 48.6	1271 59.1	2755 56.4	4403 27.6	5752 58.8	6350 7
54	26.6	302 51.9	1292 67 4.2	2782 73 3.2	4429 35.7	5769 89 7.5	6352 6
55	28.2	314 55.2	1314 9.3	2810 10.0	4455 43.9	5786 16.3	6354 5
56	60°29.8	325 62°58.5	1335 67°14.5	2837 73°16.9	4481 80°52.1	5803 89°25.0	6355 4
57	31.4	337 63 1.9	1357 19.7	2864 23.8	4507 81 0.3	5820 33.8	6356 3
58	33.0	348 5.3	1379 24.9	2892 30.7	4533 8.5	5836 42.5	6356 2
59	34.7	360 8.8	1401 30.1	2919 37.7	4559 16.7	5852 51.3	6357 1
60	36.4	372 12.2	1423 35.4	2947 44.6	4585 25.0	5868 90 0.0	6357 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

m	0 H	1 H	2 H	3 H	4 H	5 H	
0	60° 0-0	0 60° 51-2	367 63° 26-1	1402 67° 47-5	2899 73° 53-9	4509 81° 30-1	5767 60
1	0-0	0 52-9	379 29-6	1423 52-8	2926 74 0-8	4534 38-3	5783 59
2	0-1	0 54-6	391 33-1	1445 58-1	2954 7-8	4559 46-5	5798 58
3	0-1	1 56-4	404 36-6	1467 68 3-4	2981 14-8	4584 54-7	5813 57
4	0-2	2 58-2	416 40-2	1490 8-8	3008 21-8	4609 82 2-9	5827 56
5	0-4	3 61 0-1	429 43-8	1512 14-2	3035 28-8	4634 11-2	5842 55
6	60° 0-5	4 61° 1-9	442 63° 47-4	1535 68° 19-6	3062 74° 35-9	4659 82° 19-4	5856 54
7	0-7	5 3-8	455 51-1	1558 25-0	3089 43-0	4683 27-7	5870 53
8	0-9	7 5-8	469 54-8	1581 30-5	3117 50-1	4708 36-0	5883 52
9	1-1	8 7-7	483 58-5	1604 36-0	3144 57-2	4732 44-3	5897 51
10	1-4	10 9-7	497 64 2-2	1627 41-5	3172 75 4-4	4756 52-6	5911 50
11	60° 1-7	12 61° 11-7	511 64° 6-0	1650 68° 47-0	3199 75° 11-5	4780 83° 1-0	5924 49
12	2-0	15 13-7	525 9-8	1673 52-6	3226 18-8	4804 9-3	5937 48
13	2-4	17 15-8	539 13-6	1697 58-3	3254 26-0	4828 17-7	5949 47
14	2-8	20 17-9	553 17-5	1720 69 3-9	3281 33-2	4852 26-0	5961 46
15	3-2	23 20-0	568 21-4	1744 9-6	3308 40-5	4875 34-4	5973 45
16	60° 3-6	26 61° 22-2	583 64° 25-3	1768 69° 15-3	3336 75° 47-8	4899 83° 42-8	5984 44
17	4-1	30 24-4	598 29-3	1791 21-0	3363 55-2	4922 51-2	5996 43
18	4-6	33 26-6	613 33-3	1815 26-8	3390 76 2-5	4945 59-6	6008 42
19	5-1	37 28-9	629 37-3	1840 32-5	3418 9-9	4968 84 8-1	6019 41
20	5-7	41 31-1	645 41-3	1864 38-4	3445 17-3	4991 16-5	6030 40
21	60° 6-3	45 61° 33-4	660 64° 45-4	1888 69° 44-2	3472 76° 24-7	5014 84° 25-0	6040 39
22	6-9	50 35-8	676 49-5	1913 50-1	3500 32-1	5036 33-4	6051 38
23	7-5	54 38-1	692 53-6	1937 56-0	3527 39-6	5059 41-9	6061 37
24	8-2	59 40-5	709 57-8	1962 70 1-9	3554 47-1	5081 50-4	6071 36
25	8-9	64 42-9	725 65 2-0	1986 7-9	3582 54-6	5103 58-8	6080 35
26	60° 9-6	70 61° 45-4	741 65° 6-2	2011 70° 13-9	3609 77° 2-1	5125 85° 7-3	6089 34
27	10-3	75 47-9	758 10-5	2036 19-9	3636 9-7	5147 15-8	6098 33
28	11-1	81 50-4	776 14-8	2061 25-9	3663 17-3	5169 24-4	6107 32
29	11-9	87 52-9	793 19-1	2086 32-0	3690 24-9	5191 32-9	6116 31
30	12-8	93 55-5	810 23-4	2111 38-1	3717 32-5	5212 41-4	6124 30
31	60° 13-6	99 61° 58-1	827 65° 27-8	2136 70° 44-2	3745 77° 40-1	5233 85° 50-0	6132 29
32	14-5	105 62 0-7	845 32-2	2162 50-4	3772 47-8	5254 58-5	6140 28
33	15-4	112 3-3	863 36-6	2187 56-6	3799 55-4	5275 86 7-1	6147 27
34	16-4	119 6-0	881 41-1	2212 71 2-8	3826 78 3-1	5296 15-6	6154 26
35	17-4	126 8-7	899 45-6	2238 9-0	3853 10-9	5316 24-2	6161 25
36	60° 18-4	133 62° 11-5	917 65° 50-1	2264 71° 15-3	3880 78° 18-6	5337 86° 32-8	6168 24
37	19-4	141 14-2	936 54-6	2290 21-6	3907 26-4	5357 41-4	6174 23
38	20-5	148 17-0	954 59-2	2316 27-9	3934 34-2	5377 50-0	6180 22
39	21-6	156 19-9	973 66 3-9	2341 34-3	3961 42-0	5397 58-6	6186 21
40	22-7	164 22-7	992 8-5	2367 40-7	3987 49-8	5416 87 7-2	6192 20
41	60° 23-9	172 62° 25-6	1011 66° 13-2	2394 71° 47-1	4014 78° 57-6	5436 87° 15-7	6197 19
42	25-0	181 28-5	1030 17-9	2420 53-5	4041 79 5-5	5455 24-4	6202 18
43	26-2	190 31-5	1049 22-6	2446 72 0-0	4067 13-4	5474 33-0	6207 17
44	27-5	199 34-5	1069 27-3	2472 6-4	4094 21-3	5493 41-6	6212 16
45	28-7	208 37-5	1089 32-1	2498 13-0	4120 29-2	5512 50-2	6216 15
46	60° 30-0	217 62° 40-5	1109 66° 37-0	2525 72° 19-5	4147 79° 37-1	5530 87° 58-9	6220 14
47	31-4	226 43-6	1129 41-8	2551 26-1	4173 45-1	5548 88 7-5	6224 13
48	32-7	236 46-7	1149 46-7	2578 32-7	4199 53-1	5566 16-2	6227 12
49	34-1	246 49-8	1169 51-6	2604 39-3	4226 80 1-1	5584 24-8	6230 11
50	35-5	256 52-9	1190 56-5	2631 45-9	4252 9-1	5602 33-4	6233 10
51	60° 36-9	266 62° 56-1	1210 67° 1-5	2658 72° 52-6	4278 80° 17-1	5620 88° 42-1	6236 9
52	38-4	277 59-3	1231 6-5	2684 59-3	4304 25-1	5637 50-7	6238 8
53	39-9	287 63 2-6	1252 11-5	2711 73 6-1	4330 33-1	5654 59-4	6240 7
54	41-4	298 5-8	1273 16-6	2738 12-8	4356 41-2	5671 89 8-1	6242 6
55	43-0	309 9-1	1294 21-7	2765 19-6	4382 49-3	5687 16-8	6243 5
56	60° 44-5	320 63° 12-5	1315 67° 26-8	2792 73° 26-4	4407 80° 57-5	5704 89° 25-4	6244 4
57	46-2	331 15-8	1337 31-9	2819 33-2	4433 81 5-6	5720 34-1	6245 3
58	47-8	343 19-2	1358 37-1	2846 40-1	4458 13-7	5736 42-7	6246 2
59	49-5	354 22-6	1380 42-3	2873 47-0	4484 21-9	5752 51-3	6247 1
60	51-2	367 26-1	1402 47-5	2899 53-9	4509 30-1	5767 90 0-0	6247 0
	11 H	10 H	9 H	8 H	7 H	6 H	m

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°										
0	0	7	26	p-p	60	p-p	106	p-p	166	p-p	239	p-p	325	p-p	425	p-p	538	p-p	665	p-p	60
1	0	7	27	0	60	0	107	0	167	0	240	0	326	0	426	0	540	0	667	0	59
2	0	7	27	0	61	0	108	0	168	0	241	0	328	0	428	0	542	0	669	0	58
3	0	7	28	0	62	0	109	0	169	0	243	0	330	0	430	1	544	1	672	1	57
4	0	8	28	0	62	0	109	0	170	0	244	0	331	0	432	1	546	1	674	1	56
5	0	8	29	0	63	0	110	0	171	0	245	1	333	1	434	1	548	1	676	1	55
6	0	8	29	0	64	0	111	1	172	1	247	1	334	1	435	1	550	1	678	1	54
7	0	8	30	0	64	0	112	1	173	1	248	1	336	1	437	1	552	1	681	1	53
8	0	8	30	0	65	0	113	1	175	1	249	1	337	1	439	1	554	1	683	2	52
9	0	9	31	0	66	1	114	1	176	1	251	1	339	1	441	1	556	2	685	2	51
10	0	9	31	0	66	1	115	1	177	1	252	1	341	2	443	2	558	2	687	2	50
11	0	9	32	0	67	0	116	0	178	0	253	0	342	0	444	0	560	0	690	0	49
12	0	10	32	0	68	0	117	0	179	0	255	0	344	0	446	0	562	0	692	0	48
13	0	10	33	0	68	0	118	0	180	0	256	0	345	0	448	1	564	1	694	1	47
14	0	10	33	0	69	0	119	0	181	0	258	0	347	0	450	1	566	1	696	1	46
15	0	10	33	0	70	0	120	0	183	0	259	1	349	1	452	1	568	1	699	1	45
16	0	11	34	0	71	0	121	1	184	1	260	1	350	1	454	1	571	1	701	1	44
17	1	11	34	0	71	0	121	1	185	1	262	1	352	1	455	1	573	1	703	1	43
18	1	11	35	0	72	0	122	1	186	1	263	1	353	1	457	1	575	1	706	2	42
19	1	11	36	0	73	1	123	1	187	1	264	1	355	1	459	1	577	2	708	2	41
20	1	12	36	0	74	1	124	1	188	1	266	1	357	2	461	2	579	2	710	2	40
21	1	12	37	0	74	0	125	0	190	0	267	0	358	0	463	0	581	0	712	0	39
22	1	12	37	0	75	0	126	0	191	0	269	0	360	0	465	0	583	0	715	0	38
23	1	13	38	0	76	0	127	0	192	0	270	0	362	0	467	1	585	1	717	1	37
24	1	13	38	0	77	0	128	0	193	0	272	0	363	0	468	1	587	1	719	1	36
25	1	13	39	0	77	0	129	0	194	0	273	1	365	1	470	1	589	1	722	1	35
26	1	14	39	0	78	0	130	1	196	1	274	1	367	1	472	1	591	1	724	1	34
27	1	14	40	0	79	0	131	1	197	1	276	1	368	1	474	1	593	1	726	1	33
28	1	14	40	0	80	1	132	1	198	1	277	1	370	1	476	1	596	1	729	2	32
29	2	15	41	0	80	1	133	1	199	1	279	1	371	1	478	2	598	2	731	2	31
30	2	15	41	1	81	1	134	1	200	1	280	1	373	2	480	2	600	2	733	2	30
31	2	15	42	0	82	0	135	0	202	0	282	0	375	0	482	0	602	0	736	0	29
32	2	16	42	0	83	0	136	0	203	0	283	0	376	0	483	0	604	0	738	0	28
33	2	16	43	0	83	0	137	0	204	0	284	0	378	0	485	1	606	1	740	1	27
34	2	16	44	0	84	0	138	0	205	0	286	0	380	0	487	1	608	1	743	1	26
35	2	17	44	0	85	0	139	0	207	0	287	1	382	1	489	1	610	1	745	1	25
36	2	17	45	0	86	0	140	1	208	1	289	1	383	1	491	1	612	1	748	1	24
37	3	17	45	0	87	0	141	1	209	1	290	1	385	1	493	1	615	1	750	1	23
38	3	18	46	0	87	1	142	1	210	1	292	1	387	1	495	1	617	1	752	2	22
39	3	18	46	1	88	1	143	1	212	1	293	1	388	1	497	2	619	2	755	2	21
40	3	18	47	1	89	1	144	1	213	1	295	1	390	2	499	2	621	2	757	2	20
41	3	19	48	0	90	0	145	0	214	0	296	0	392	0	501	0	623	0	759	0	19
42	3	19	48	0	91	0	146	0	215	0	298	0	393	0	503	0	625	0	762	0	18
43	3	19	49	0	91	0	147	0	217	0	299	0	395	0	505	1	628	1	764	1	17
44	4	20	49	0	92	0	148	0	218	0	301	0	397	0	506	1	630	1	767	1	16
45	4	20	50	0	93	0	149	0	219	0	302	1	399	1	508	1	632	1	769	1	15
46	4	21	51	0	94	0	150	1	220	1	304	1	400	1	510	1	634	1	771	1	14
47	4	21	51	0	95	0	152	1	222	1	305	1	402	1	512	1	636	1	774	1	13
48	4	21	52	0	96	1	153	1	223	1	307	1	404	1	514	1	638	2	776	2	12
49	4	22	52	1	96	1	154	1	224	1	308	1	405	1	516	2	641	2	779	2	11
50	5	22	53	1	97	1	155	1	225	1	310	1	407	2	518	2	643	2	781	2	10
51	5	23	54	0	98	0	156	0	227	0	311	0	409	0	520	0	645	0	783	0	9
52	5	23	54	0	99	0	157	0	228	0	313	0	411	0	522	0	647	0	786	0	8
53	5	23	55	0	100	0	158	0	229	0	314	0	412	0	524	1	649	1	788	1	7
54	5	24	56	0	101	0	159	0	231	0	316	0	414	0	526	1	652	1	791	1	6
55	6	24	56	0	102	0	160	0	232	1	317	1	416	1	528	1	654	1	793	1	5
56	6	25	57	0	102	1	161	1	233	1	319	1	418	1	530	1	656	1	796	1	4
57	6	25	58	0	103	1	162	1	235	1	320	1	419	1	532	1	658	1	798	1	3
58	6	26	58	0	104	1	163	1	236	1	322	1	421	1	534	1	660	2	800	2	2
59	6	26	59	1	105	1	164	1	237	1	323	1	423	1	536	2	663	2	803	2	1
60	7	26	60	1	106	1	166	1	239	1	325	1	425	2	538	2	665	2	805	2	0
	89°	88°	87°		86°		85°		84°		83°		82°		81°		80°		79°		

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	
0	805 p-p	960 p-p	1128 p-p	1310 p-p	1506 p-p	1716 p-p	1940 p-p	2179 p-p	2433 p-p	2701 p-p	60
1	808 0	962 0	1131 0	1313 0	1509 0	1719 0	1944 0	2183 0	2437 0	2706 0	59
2	810 1	965 1	1133 1	1316 1	1512 1	1723 1	1948 1	2188 1	2442 1	2711 1	58
3	813 1	968 1	1136 1	1319 1	1516 1	1727 1	1952 1	2192 1	2446 1	2715 1	57
4	815 1	970 1	1139 1	1322 1	1519 1	1730 1	1956 1	2196 1	2450 1	2720 1	56
5	818 1	973 1	1142 1	1325 1	1523 1	1734 1	1960 2	2200 2	2455 2	2724 2	55
6	820 2	976 2	1145 2	1329 2	1526 2	1738 2	1964 2	2204 2	2459 3	2729 3	54
7	823 2	978 2	1148 2	1332 2	1529 2	1741 2	1968 2	2208 2	2464 3	2734 3	53
8	825 2	981 2	1151 2	1335 2	1533 2	1745 3	1971 3	2212 3	2468 3	2738 3	52
9	828 2	984 2	1154 2	1338 3	1536 3	1749 3	1975 3	2216 3	2472 4	2743 4	51
10	830 2	987 2	1157 3	1341 3	1540 3	1752 3	1979 4	2221 4	2477 4	2748 4	50
11	833 0	989 0	1160 0	1344 0	1543 0	1756 0	1983 0	2225 0	2481 0	2752 0	49
12	835 1	992 1	1163 1	1348 1	1547 1	1760 1	1987 1	2229 1	2485 1	2757 1	48
13	838 1	995 1	1166 1	1351 1	1550 1	1763 1	1991 1	2233 1	2490 1	2762 1	47
14	840 1	998 1	1169 1	1354 1	1553 1	1767 1	1995 2	2237 2	2494 2	2766 2	46
15	843 1	1000 1	1172 1	1357 1	1557 1	1771 1	1999 2	2241 2	2499 2	2771 2	45
16	845 2	1003 2	1175 2	1360 2	1560 2	1774 2	2003 2	2246 2	2503 3	2776 3	44
17	848 2	1006 2	1178 2	1364 2	1564 2	1778 2	2007 2	2250 2	2508 3	2780 3	43
18	850 2	1009 2	1181 2	1367 2	1567 2	1782 3	2011 3	2254 3	2512 3	2785 3	42
19	853 2	1011 2	1184 2	1370 3	1571 3	1785 3	2014 3	2258 3	2516 4	2790 4	41
20	855 2	1014 2	1187 3	1373 3	1574 3	1789 3	2018 4	2262 4	2521 4	2794 4	40
21	858 0	1017 0	1190 0	1377 0	1578 0	1793 0	2022 0	2266 0	2525 0	2799 0	39
22	860 1	1020 1	1193 1	1380 1	1581 1	1796 1	2026 1	2271 1	2530 1	2804 1	38
23	863 1	1022 1	1196 1	1383 1	1585 1	1800 1	2030 1	2275 1	2534 1	2808 1	37
24	865 1	1025 1	1199 1	1386 1	1588 1	1804 1	2034 1	2279 1	2539 1	2813 1	36
25	868 1	1028 1	1202 1	1390 1	1591 1	1808 1	2038 2	2283 2	2543 2	2818 2	35
26	870 2	1031 2	1205 2	1393 2	1595 2	1811 2	2042 2	2287 2	2547 3	2822 3	34
27	873 2	1033 2	1208 2	1396 2	1598 2	1815 2	2046 2	2292 2	2552 3	2827 3	33
28	876 2	1036 2	1211 2	1399 2	1602 2	1819 3	2050 3	2296 3	2556 3	2832 3	32
29	878 2	1039 2	1214 2	1403 3	1605 3	1823 3	2054 3	2300 3	2561 4	2837 4	31
30	881 2	1042 3	1217 3	1406 3	1609 3	1826 3	2058 4	2304 4	2565 4	2841 4	30
31	883 0	1045 0	1220 0	1409 0	1612 0	1830 0	2062 0	2309 0	2570 0	2846 0	29
32	886 1	1047 1	1223 1	1412 1	1616 1	1834 1	2066 1	2313 1	2574 1	2851 1	28
33	888 1	1050 1	1226 1	1416 1	1619 1	1838 1	2070 1	2317 1	2579 1	2855 1	27
34	891 1	1053 1	1229 1	1419 1	1623 1	1841 1	2074 1	2321 1	2583 1	2860 1	26
35	894 1	1056 1	1232 1	1422 1	1627 1	1845 2	2078 2	2326 2	2588 2	2865 2	25
36	896 2	1059 2	1235 2	1426 2	1630 2	1849 2	2082 2	2330 3	2592 3	2870 3	24
37	899 2	1062 2	1238 2	1429 2	1634 2	1853 2	2086 2	2334 3	2597 3	2874 3	23
38	901 2	1064 2	1241 2	1432 2	1637 2	1856 3	2090 3	2338 3	2601 3	2879 3	22
39	904 2	1067 2	1244 2	1435 3	1641 3	1860 3	2094 3	2343 3	2606 4	2884 4	21
40	907 2	1070 3	1247 3	1439 3	1644 3	1864 3	2098 4	2347 4	2610 4	2889 4	20
41	909 0	1073 0	1250 0	1442 0	1648 0	1868 0	2102 0	2351 0	2615 0	2893 0	19
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	78°	77°	76°	75°	74°	73°	72°	71°	70°	69°	

	21°	22°	23°	24°	25°	26°	27°	28°	29°	30°	
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	41°		42°		43°		44°		45°		46°		47°		
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3	12255	3	12927	3	13623	4	14343	4	15089	4	15862	4	16662	4	57
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7	12299		12972		13670		14392		15140		15915		16717		53
8	12310	8	12984	8	13682	8	14404	9	15153	9	15928	9	16730	10	52
9	12321	9	12995	9	13694	9	14417	10	15165	10	15941	10	16744	11	51
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17	12410		13087		13789		14515		15267		16046		16853		43
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19	12432	9	13110	9	13812	10	14540	10	15293	10	16073	11	16880	11	41
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25	12499	4	13179	5	13884	5	14614	5	15370	5	16152	5	16963	5	35
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27	12521		13202		13908		14639		15395		16179		16990		33
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29	12543	9	13225	9	13932	10	14663	10	15421	10	16205	11	17018	11	31
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	76°		77°		78°		79°		80°		81°		82°		
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	6°		5°		4°		3°		2°		1°		0°		

<i>l</i>	0 ^m	1 ^m	2 ^m	3 ^m	4 ^m	5 ^m	6 ^m	7 ^m	8 ^m	9 ^m	10 ^m	11 ^m	12 ^m	13 ^m
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7		28:14	14:07	9:38	7:03	5:63	4:69	4:02	3:52	3:13	2:81	2:56	2:34	2:16
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9		36:30	18:15	12:10	9:07	7:26	6:05	5:18	4:54	4:03	3:63	3:30	3:02	2:79
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11		44:55	22:27	14:85	11:14	8:91	7:42	6:36	5:57	4:95	4:45	4:05	3:71	3:42
12		48:71	24:36	16:24	12:18	9:74	8:12	6:96	6:09	5:41	4:87	4:43	4:06	3:74
13		52:91	26:45	17:64	13:23	10:58	8:82	7:56	6:61	5:88	5:29	4:81	4:41	4:07
14		57:14	28:57	19:05	14:28	11:43	9:52	8:16	7:14	6:35	5:71	5:19	4:76	4:39
15		61:41	30:70	20:47	15:35	12:28	10:23	8:77	7:67	6:82	6:14	5:58	5:11	4:72
16		65:72	32:86	21:90	16:43	13:14	10:95	9:39	8:21	7:30	6:57	5:97	5:47	5:05
17		70:07	35:03	23:35	17:52	14:01	11:68	10:01	8:76	7:78	7:00	6:37	5:83	5:38
18		74:47	37:23	24:82	18:61	14:89	12:41	10:63	9:30	8:27	7:44	6:76	6:20	5:72
19		78:91	39:46	26:30	19:73	15:78	13:15	11:27	9:86	8:76	7:89	7:17	6:57	6:06
20		83:42	41:71	27:80	20:85	16:68	13:90	11:91	10:42	9:26	8:34	7:58	6:94	6:41
21		87:97	43:99	29:32	21:99	17:59	14:66	12:56	10:99	9:77	8:79	7:99	7:32	6:76
22		92:60	46:30	30:86	23:15	18:52	15:43	13:22	11:57	10:28	9:25	8:41	7:71	7:12
23		97:28	48:64	32:43	24:32	19:45	16:21	13:89	12:16	10:80	9:72	8:84	8:10	7:48
24		102:04	51:02	34:01	25:51	20:40	17:00	14:57	12:75	11:33	10:20	9:27	8:50	7:84
25		106:87	53:43	35:62	26:71	21:37	17:81	15:26	13:35	11:87	10:68	9:71	8:90	8:21
26		111:78	55:89	37:26	27:94	22:35	18:63	15:96	13:97	12:41	11:17	10:15	9:31	8:59
27		116:77	58:39	38:92	29:19	23:35	19:46	16:68	14:59	12:97	11:67	10:61	9:72	8:97
28		121:86	60:93	40:62	30:46	24:37	20:31	17:40	15:23	13:53	12:18	11:07	10:15	9:36
29		127:04	63:52	42:34	31:76	25:40	21:17	18:14	15:87	14:11	12:70	11:54	10:58	9:76
30		132:32	66:16	44:10	33:08	26:46	22:05	18:90	16:53	14:69	13:22	12:02	11:02	10:17
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34		154:59	77:29	51:53	38:64	30:91	25:76	22:08	19:32	17:17	15:45	14:04	12:87	11:88
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36		166:51	83:25	55:50	41:62	33:30	27:75	23:78	20:81	18:49	16:64	15:13	13:86	12:79
37		172:70	86:35	57:56	43:17	34:53	28:78	24:66	21:58	19:18	17:26	15:69	14:38	13:27
38		179:06	89:53	59:68	44:76	35:81	29:84	25:57	22:37	19:89	17:89	16:27	14:91	13:76
39		185:59	92:79	61:86	46:39	37:11	30:92	26:50	23:19	20:61	18:55	16:86	15:45	14:26
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41		199:22	99:61	66:40	49:80	39:84	33:20	28:45	24:89	22:12	19:91	18:10	16:59	15:31
42		206:36	103:18	68:78	51:58	41:26	34:39	29:47	25:78	22:92	20:62	18:75	17:18	15:86
43		213:72	106:86	71:23	53:42	42:74	35:61	30:52	26:70	23:73	21:36	19:41	17:79	16:42
44		221:32	110:66	73:77	55:32	44:26	36:88	31:61	27:65	24:58	22:12	20:10	18:43	17:01
45		229:18	114:59	76:39	57:29	45:83	38:19	32:73	28:64	25:45	22:90	20:82	19:08	17:61
46		237:32	118:66	79:10	59:33	47:46	39:55	33:89	29:65	26:36	23:72	21:56	19:76	18:24
47		245:77	122:88	81:92	61:44	49:15	40:95	35:10	30:71	27:29	24:56	22:33	20:46	18:89
48		254:53	127:26	84:84	63:63	50:90	42:41	36:35	31:80	28:27	25:44	23:12	21:19	19:56
49		263:64	131:82	87:88	65:90	52:72	43:93	37:65	32:94	29:28	26:35	23:95	21:95	20:26
50		273:13	136:56	91:04	68:28	54:62	45:51	39:01	34:13	30:33	27:30	24:81	22:74	20:99
51		283:02	141:51	94:33	70:75	56:59	47:16	40:42	35:36	31:43	28:28	25:71	23:56	21:75
52		293:34	146:67	97:77	73:33	58:66	48:88	41:89	36:65	32:58	29:32	26:65	24:42	22:54
53		304:13	152:06	101:37	76:03	60:82	50:68	43:43	38:00	33:78	30:39	27:63	25:32	23:37
54		315:44	157:72	105:14	78:85	63:08	52:56	45:05	39:41	35:03	31:52	28:65	26:26	24:24
55		327:31	163:65	109:10	81:82	65:45	54:54	46:74	40:90	36:35	32:71	29:73	27:25	25:15
56		339:78	169:88	113:25	84:94	67:94	56:62	48:52	42:46	37:73	33:96	30:87	28:29	26:11
57		352:91	176:45	117:63	88:22	70:57	58:81	50:40	44:10	39:19	35:27	32:06	29:38	27:12
58		366:77	183:38	122:25	91:68	73:34	61:11	52:38	45:83	40:73	36:65	33:32	30:54	28:18
59		381:42	190:71	127:13	95:35	76:27	63:56	54:47	47:66	42:36	38:12	34:65	31:76	29:31
60		396:95	198:47	132:31	99:23	79:38	66:14	56:69	49:60	44:08	39:67	36:06	33:05	30:50
<i>l</i>	60 ^m	59 ^m	58 ^m	57 ^m	56 ^m	55 ^m	54 ^m	53 ^m	52 ^m	51 ^m	50 ^m	49 ^m	48 ^m	47 ^m

Taboa XIV

Table XIV

°	0 ^m	1 ^m	2 ^m	3 ^m	4 ^m	5 ^m	6 ^m	7 ^m	8 ^m	9 ^m	10 ^m	11 ^m	12 ^m	13 ^m
0	∞	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00
1		4-00	2-00	1-33	1-00	0-80	0-67	0-57	0-50	0-44	0-40	0-36	0-33	0-31
2		8-00	4-00	2-67	2-00	1-60	1-33	1-14	1-00	0-89	0-80	0-73	0-67	0-62
3		12-01	6-01	4-00	3-00	2-40	2-00	1-72	1-50	1-33	1-20	1-09	1-00	0-92
4		16-03	8-01	5-34	4-01	3-21	2-67	2-29	2-00	1-78	1-60	1-46	1-34	1-23
5		20-05	10-03	6-68	5-01	4-01	3-34	2-86	2-51	2-23	2-01	1-82	1-67	1-54
6		24-09	12-04	8-03	6-02	4-82	4-02	3-44	3-01	2-68	2-41	2-19	2-01	1-85
7		28-14	14-07	9-38	7-04	5-63	4-69	4-02	3-52	3-13	2-82	2-56	2-35	2-17
8		32-21	16-10	10-74	8-05	6-44	5-37	4-60	4-03	3-58	3-22	2-93	2-69	2-48
9		36-30	18-15	12-10	9-08	7-26	6-05	5-19	4-54	4-03	3-63	3-30	3-03	2-79
10		40-41	20-21	13-47	10-10	8-08	6-74	5-77	5-05	4-49	4-04	3-68	3-37	3-11
11		44-55	22-27	14-85	11-14	8-91	7-43	6-37	5-57	4-95	4-46	4-05	3-71	3-43
12		48-71	24-36	16-24	12-18	9-74	8-12	6-96	6-09	5-41	4-87	4-43	4-06	3-75
13		52-91	26-46	17-64	13-23	10-58	8-82	7-56	6-62	5-88	5-29	4-81	4-41	4-07
14		57-14	28-57	19-05	14-29	11-43	9-52	8-16	7-14	6-35	5-72	5-20	4-76	4-40
15		61-41	30-71	20-47	15-35	12-28	10-24	8-77	7-68	6-83	6-14	5-58	5-12	4-73
16		65-72	32-86	21-91	16-43	13-14	10-95	9-39	8-22	7-30	6-57	5-98	5-48	5-06
17		70-07	35-03	23-36	17-52	14-01	11-68	10-01	8-76	7-79	7-01	6-37	5-84	5-39
18		74-47	37-23	24-82	18-62	14-89	12-41	10-64	9-31	8-28	7-45	6-77	6-21	5-73
19		78-91	39-46	26-31	19-73	15-78	13-15	11-28	9-87	8-77	7-89	7-18	6-58	6-07
20		83-42	41-71	27-81	20-86	16-68	13-90	11-92	10-43	9-27	8-34	7-59	6-95	6-42
21		87-98	43-99	29-33	21-99	17-60	14-66	12-57	11-00	9-78	8-80	8-00	7-33	6-77
22		92-60	46-30	30-87	23-15	18-52	15-43	13-23	11-58	10-29	9-26	8-42	7-72	7-13
23		97-28	48-64	32-43	24-32	19-46	16-22	13-90	12-16	10-81	9-73	8-85	8-11	7-49
24		102-04	51-02	34-01	25-51	20-41	17-01	14-58	12-76	11-34	10-21	9-28	8-51	7-85
25		106-87	53-44	35-62	26-72	21-38	17-81	15-27	13-36	11-88	10-69	9-72	8-91	8-23
26		111-78	55-89	37-26	27-95	22-36	18-63	15-97	13-98	12-42	11-18	10-17	9-32	8-60
27		116-77	58-39	38-93	29-20	23-36	19-46	16-68	14-60	12-98	11-68	10-62	9-74	8-99
28		121-86	60-93	40-62	30-47	24-37	20-31	17-41	15-24	13-54	12-19	11-08	10-16	9-38
29		127-04	63-52	42-35	31-76	25-41	21-18	18-15	15-88	14-12	12-71	11-55	10-59	9-78
30		132-32	66-16	44-11	33-08	26-47	22-06	18-91	16-54	14-71	13-24	12-03	11-03	10-18
31		137-71	68-85	45-90	34-43	27-54	22-95	19-68	17-22	15-30	13-78	12-52	11-48	10-60
32		143-21	71-61	47-74	35-80	28-64	23-87	20-46	17-90	15-92	14-33	13-02	11-94	11-02
33		148-83	74-42	49-61	37-21	29-77	24-81	21-27	18-61	16-54	14-89	13-54	12-41	11-45
34		154-59	77-29	51-53	38-65	30-92	25-77	22-09	19-33	17-18	15-46	14-06	12-89	11-90
35		160-48	80-24	53-49	40-12	32-10	26-75	22-93	20-06	17-84	16-05	14-59	13-38	12-35
36		166-51	83-26	55-51	41-63	33-30	27-76	23-79	20-82	18-51	16-66	15-14	13-88	12-82
37		172-70	86-35	57-57	43-18	34-54	28-79	24-68	21-59	19-19	17-28	15-71	14-40	13-29
38		179-06	89-53	59-69	44-77	35-81	29-85	25-58	22-39	19-90	17-91	16-28	14-93	13-78
39		185-59	92-80	61-86	46-40	37-12	30-94	26-52	23-20	20-63	18-56	16-88	15-47	14-28
40		192-31	96-16	64-10	48-08	38-46	32-05	27-48	24-04	21-37	19-24	17-49	16-03	14-80
41		199-23	99-61	66-41	49-81	39-85	33-21	28-47	24-91	22-14	19-93	18-12	16-61	15-33
42		206-36	103-18	68-79	51-59	41-27	34-40	29-48	25-80	22-93	20-64	18-77	17-20	15-88
43		213-72	106-86	71-24	53-43	42-75	35-62	30-54	26-72	23-75	21-38	19-44	17-82	16-45
44		221-32	110-66	73-78	55-33	44-27	36-89	31-62	27-67	24-60	22-14	20-13	18-45	17-03
45		229-18	114-59	76-40	57-30	45-84	38-20	32-75	28-65	25-47	22-93	20-84	19-11	17-64
46		237-33	118-66	79-11	59-33	47-47	39-56	33-91	29-67	26-38	23-74	21-58	19-79	18-27
47		245-77	122-89	81-93	61-45	49-16	40-97	35-12	30-73	27-31	24-58	22-35	20-49	18-92
48		254-53	127-27	84-85	63-64	50-91	42-43	36-37	31-82	28-29	25-46	23-15	21-22	19-59
49		263-65	131-82	87-88	65-91	52-73	43-95	37-67	32-96	29-30	26-37	23-98	21-98	20-29
50		273-13	136-57	91-05	68-29	54-63	45-53	39-02	34-15	30-36	27-32	24-84	22-77	21-02
51		283-02	141-51	94-34	70-76	56-61	47-18	40-44	35-38	31-45	28-31	25-74	23-60	21-78
52		293-34	146-67	97-78	73-34	58-67	48-90	41-91	36-68	32-60	29-34	26-68	24-46	22-58
53		304-14	152-07	101-38	76-04	60-83	50-70	43-45	38-02	33-80	30-42	27-66	25-36	23-41
54		315-44	157-72	105-15	78-86	63-09	52-58	45-07	39-44	35-06	31-55	28-69	26-30	24-28
55		327-31	163-66	109-11	81-83	65-47	54-56	46-77	40-92	36-38	32-74	29-77	27-29	25-19
56		339-78	169-89	113-26	84-95	67-96	56-64	48-55	42-48	37-76	33-99	30-90	28-33	26-15
57		352-91	176-46	117-64	88-23	70-59	58-83	50-42	44-12	39-22	35-30	32-10	29-42	27-16
58		366-77	183-39	122-26	91-70	73-36	61-14	52-40	45-86	40-76	36-69	33-36	30-58	28-23
59		381-43	190-71	127-15	95-36	76-29	63-58	54-50	47-69	42-39	38-15	34-69	31-80	29-36
60	∞	396-96	198-48	132-32	99-24	79-40	66-17	56-72	49-63	44-12	39-71	36-10	33-09	30-55
°	60 ^m	59 ^m	58 ^m	57 ^m	56 ^m	55 ^m	54 ^m	53 ^m	52 ^m	51 ^m	50 ^m	49 ^m	48 ^m	47 ^m

l e d do mesmo nome : sinal +
l e d de nome contrario: » -

l and d of same name: signal +
l » d of contrary » : » -

<i>l</i>	14 ^m	15 ^m	16 ^m	17 ^m	18 ^m	19 ^m	20 ^m	21 ^m	22 ^m	23 ^m	24 ^m	25 ^m	26 ^m	27 ^m	28 ^m	29 ^m
0 ^o	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
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7	2:01	1:87	1:76	1:65	1:56	1:48	1:40	1:34	1:28	1:22	1:17	1:12	1:08	1:04	1:00	0:97
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9	2:59	2:42	2:27	2:13	2:01	1:91	1:81	1:72	1:64	1:57	1:51	1:45	1:39	1:34	1:29	1:25
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<i>l</i>	46 ^m	45 ^m	44 ^m	43 ^m	42 ^m	41 ^m	40 ^m	39 ^m	38 ^m	37 ^m	36 ^m	35 ^m	34 ^m	33 ^m	32 ^m	31 ^m

Taboa XIV

$P=O^h$

Table XIV

b

δ	14 ^m	15 ^m	16 ^m	17 ^m	18 ^m	19 ^m	20 ^m	21 ^m	22 ^m	23 ^m	24 ^m	25 ^m	26 ^m	27 ^m	28 ^m	29 ^m
0 ^o	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
1	0:29	0:27	0:25	0:24	0:22	0:21	0:20	0:19	0:18	0:17	0:17	0:16	0:15	0:15	0:14	0:14
2	0:57	0:53	0:50	0:47	0:45	0:42	0:40	0:38	0:36	0:35	0:33	0:32	0:31	0:30	0:29	0:28
3	0:86	0:80	0:75	0:71	0:67	0:63	0:60	0:57	0:55	0:52	0:50	0:48	0:46	0:45	0:43	0:42
4	1:15	1:07	1:00	0:94	0:89	0:84	0:80	0:76	0:73	0:70	0:67	0:64	0:62	0:60	0:57	0:55
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δ	46 ^m	45 ^m	44 ^m	43 ^m	42 ^m	41 ^m	40 ^m	39 ^m	38 ^m	37 ^m	36 ^m	35 ^m	34 ^m	33 ^m	32 ^m	31 ^m

l e d do mesmo nome : sinal +
l e d de nome contrario: » -

$P=11^h$

l and d of same name: signal +
l » d of contrary » : » -

<i>l</i>	30 ^m	31 ^m	32 ^m	33 ^m	34 ^m	35 ^m	36 ^m	37 ^m	38 ^m	39 ^m	40 ^m	41 ^m	42 ^m	43 ^m	44 ^m	45 ^m
0 ^m	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00
1	0-13	0-13	0-12	0-12	0-12	0-11	0-11	0-11	0-10	0-10	0-10	0-10	0-09	0-09	0-09	0-09
2	0-27	0-26	0-25	0-24	0-23	0-23	0-22	0-21	0-21	0-20	0-20	0-19	0-19	0-18	0-18	0-18
3	0-40	0-39	0-37	0-36	0-35	0-34	0-33	0-32	0-31	0-30	0-30	0-29	0-28	0-28	0-27	0-26
4	0-53	0-51	0-50	0-48	0-47	0-45	0-44	0-43	0-42	0-41	0-40	0-39	0-38	0-37	0-36	0-35
5	0-66	0-64	0-62	0-60	0-59	0-57	0-55	0-54	0-52	0-51	0-50	0-48	0-47	0-46	0-45	0-44
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7	0-93	0-90	0-87	0-85	0-82	0-80	0-78	0-75	0-73	0-72	0-70	0-68	0-66	0-65	0-63	0-62
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30 ^m	29 ^m	28 ^m	27 ^m	26 ^m	25 ^m	24 ^m	23 ^m	22 ^m	21 ^m	20 ^m	19 ^m	18 ^m	17 ^m	16 ^m	15 ^m	

! e d do mesmo nome: sinal +
! e d de nome contrario: " -

P=11^h

! and d of same name: signal +
! " d of contrary " : " -

l	45 ^m	46 ^m	47 ^m	48 ^m	49 ^m	50 ^m	51 ^m	52 ^m	53 ^m	54 ^m	55 ^m	56 ^m	57 ^m	58 ^m	59 ^m	60 ^m
0 ^o	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
1	0:09	0:09	0:08	0:08	0:08	0:08	0:08	0:08	0:07	0:07	0:07	0:07	0:07	0:07	0:07	0:07
2	0:18	0:17	0:17	0:16	0:16	0:16	0:15	0:15	0:15	0:15	0:14	0:14	0:14	0:14	0:13	0:13
3	0:26	0:26	0:25	0:25	0:24	0:24	0:23	0:23	0:22	0:22	0:21	0:21	0:21	0:20	0:20	0:20
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5	0:44	0:43	0:42	0:41	0:40	0:39	0:39	0:38	0:37	0:36	0:36	0:35	0:34	0:34	0:33	0:33
6	0:53	0:52	0:51	0:49	0:48	0:47	0:46	0:46	0:45	0:44	0:43	0:42	0:41	0:41	0:40	0:39
7	0:62	0:60	0:59	0:58	0:57	0:55	0:54	0:53	0:52	0:51	0:50	0:49	0:48	0:47	0:47	0:46
8	0:71	0:69	0:68	0:66	0:65	0:63	0:62	0:61	0:60	0:59	0:57	0:56	0:55	0:54	0:53	0:52
9	0:80	0:78	0:76	0:75	0:73	0:71	0:70	0:69	0:67	0:66	0:65	0:64	0:62	0:61	0:60	0:59
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l	15 ^m	14 ^m	13 ^m	12 ^m	11 ^m	10 ^m	9 ^m	8 ^m	7 ^m	6 ^m	5 ^m	4 ^m	3 ^m	2 ^m	1 ^m	0 ^m

Taboa XIV

Table XIV

δ	45 ^m	46 ^m	47 ^m	48 ^m	49 ^m	50 ^m	51 ^m	52 ^m	53 ^m	54 ^m	55 ^m	56 ^m	57 ^m	58 ^m	59 ^m	60 ^m
0°	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
1	0:09	0:09	0:09	0:08	0:08	0:08	0:08	0:08	0:08	0:07	0:07	0:07	0:07	0:07	0:07	0:07
2	0:18	0:18	0:17	0:17	0:16	0:16	0:16	0:16	0:15	0:15	0:15	0:14	0:14	0:14	0:14	0:13
3	0:27	0:26	0:26	0:25	0:25	0:24	0:24	0:23	0:23	0:22	0:22	0:22	0:21	0:21	0:21	0:20
4	0:36	0:35	0:34	0:34	0:33	0:32	0:32	0:31	0:31	0:30	0:29	0:29	0:28	0:28	0:27	0:27
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δ	15 ^m	14 ^m	13 ^m	12 ^m	11 ^m	10 ^m	9 ^m	8 ^m	7 ^m	6 ^m	5 ^m	4 ^m	3 ^m	2 ^m	1 ^m	0 ^m

l e d do mesmo nome : sinal +
l e d de nome contrario: » -

P=11^h

l and d of same name: signal +
l » d of contrary » : » -

l	0 ^m	2 ^m	4 ^m	6 ^m	8 ^m	10 ^m	12 ^m	14 ^m	16 ^m	18 ^m	20 ^m	22 ^m	24 ^m	26 ^m	28 ^m	30 ^m
0 ^o	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.07	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04
2	0.13	0.13	0.12	0.12	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.08
3	0.20	0.19	0.18	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.14	0.14	0.14	0.13	0.13	0.13
4	0.26	0.25	0.24	0.24	0.23	0.22	0.22	0.21	0.20	0.20	0.19	0.19	0.18	0.18	0.17	0.17
5	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.25	0.25	0.24	0.23	0.23	0.22	0.22	0.21
6	0.39	0.38	0.37	0.35	0.34	0.33	0.32	0.31	0.31	0.30	0.29	0.28	0.27	0.27	0.26	0.25
7	0.46	0.44	0.43	0.41	0.40	0.39	0.38	0.37	0.36	0.35	0.34	0.33	0.32	0.31	0.30	0.30
8	0.52	0.51	0.49	0.47	0.46	0.45	0.43	0.42	0.41	0.40	0.39	0.38	0.37	0.36	0.35	0.34
9	0.59	0.57	0.55	0.53	0.52	0.50	0.49	0.47	0.46	0.45	0.44	0.42	0.41	0.40	0.39	0.38
10	0.66	0.64	0.61	0.60	0.58	0.56	0.54	0.53	0.51	0.50	0.48	0.47	0.46	0.45	0.44	0.43
11	0.73	0.70	0.68	0.66	0.64	0.62	0.60	0.58	0.56	0.55	0.53	0.52	0.51	0.49	0.48	0.47
12	0.79	0.77	0.74	0.72	0.70	0.67	0.65	0.64	0.62	0.60	0.58	0.57	0.55	0.54	0.53	0.51
13	0.86	0.83	0.81	0.78	0.76	0.73	0.71	0.69	0.67	0.65	0.63	0.62	0.60	0.59	0.57	0.56
14	0.93	0.90	0.87	0.84	0.82	0.79	0.77	0.75	0.72	0.70	0.69	0.67	0.65	0.63	0.62	0.60
15	1.00	0.97	0.93	0.90	0.88	0.85	0.82	0.80	0.78	0.76	0.74	0.72	0.70	0.68	0.66	0.65
16	1.07	1.03	1.00	0.97	0.94	0.91	0.88	0.86	0.83	0.81	0.79	0.77	0.75	0.73	0.71	0.69
17	1.14	1.10	1.07	1.03	1.00	0.97	0.94	0.91	0.89	0.86	0.84	0.82	0.80	0.78	0.76	0.74
18	1.21	1.17	1.13	1.10	1.06	1.03	1.00	0.97	0.94	0.92	0.89	0.87	0.85	0.82	0.80	0.78
19	1.29	1.24	1.20	1.16	1.13	1.09	1.06	1.03	1.00	0.97	0.95	0.92	0.90	0.87	0.85	0.83
20	1.36	1.31	1.27	1.23	1.19	1.15	1.12	1.09	1.06	1.03	1.00	0.97	0.95	0.92	0.90	0.88
21	1.43	1.38	1.34	1.30	1.26	1.22	1.18	1.15	1.11	1.08	1.05	1.03	1.00	0.97	0.95	0.93
22	1.51	1.46	1.41	1.36	1.32	1.28	1.24	1.21	1.17	1.14	1.11	1.08	1.05	1.03	1.00	0.98
23	1.58	1.53	1.48	1.43	1.39	1.35	1.31	1.27	1.23	1.20	1.17	1.14	1.11	1.08	1.05	1.02
24	1.66	1.61	1.55	1.50	1.46	1.41	1.37	1.33	1.29	1.26	1.22	1.19	1.16	1.13	1.10	1.07
25	1.74	1.68	1.63	1.57	1.53	1.48	1.44	1.39	1.35	1.32	1.28	1.25	1.21	1.18	1.15	1.13
26	1.82	1.76	1.70	1.65	1.60	1.55	1.50	1.46	1.42	1.38	1.34	1.30	1.27	1.24	1.21	1.18
27	1.90	1.84	1.78	1.72	1.67	1.62	1.57	1.52	1.48	1.44	1.40	1.36	1.33	1.29	1.26	1.23
28	1.98	1.92	1.85	1.80	1.74	1.69	1.64	1.59	1.54	1.50	1.46	1.42	1.39	1.35	1.32	1.28
29	2.07	2.00	1.93	1.87	1.81	1.76	1.71	1.66	1.61	1.57	1.52	1.48	1.44	1.41	1.37	1.34
30	2.15	2.08	2.01	1.95	1.89	1.83	1.78	1.73	1.68	1.63	1.59	1.54	1.50	1.47	1.43	1.39
31	2.24	2.17	2.10	2.03	1.97	1.91	1.85	1.80	1.75	1.70	1.65	1.61	1.57	1.53	1.49	1.45
32	2.33	2.25	2.18	2.11	2.04	1.98	1.92	1.87	1.81	1.76	1.72	1.67	1.63	1.59	1.55	1.51
33	2.42	2.34	2.26	2.19	2.12	2.06	2.00	1.94	1.89	1.83	1.78	1.74	1.69	1.65	1.61	1.57
34	2.52	2.43	2.35	2.28	2.21	2.14	2.08	2.02	1.96	1.90	1.85	1.80	1.76	1.71	1.67	1.63
35	2.61	2.52	2.44	2.36	2.29	2.22	2.16	2.09	2.03	1.98	1.92	1.87	1.82	1.78	1.73	1.69
36	2.71	2.62	2.53	2.45	2.38	2.30	2.24	2.17	2.11	2.05	2.00	1.94	1.89	1.84	1.80	1.75
37	2.81	2.72	2.63	2.54	2.46	2.39	2.32	2.25	2.19	2.13	2.07	2.02	1.96	1.91	1.87	1.82
38	2.92	2.82	2.72	2.64	2.56	2.48	2.40	2.34	2.27	2.21	2.15	2.09	2.04	1.98	1.93	1.89
39	3.02	2.92	2.82	2.73	2.65	2.57	2.49	2.42	2.35	2.29	2.22	2.17	2.11	2.06	2.00	1.95
40	3.13	3.03	2.93	2.83	2.74	2.66	2.58	2.51	2.44	2.37	2.31	2.24	2.19	2.13	2.08	2.03
41	3.24	3.13	3.03	2.93	2.84	2.76	2.68	2.60	2.52	2.45	2.39	2.33	2.26	2.21	2.15	2.10
42	3.36	3.25	3.14	3.04	2.95	2.86	2.77	2.69	2.61	2.54	2.47	2.41	2.35	2.29	2.23	2.17
43	3.48	3.36	3.25	3.15	3.05	2.96	2.87	2.79	2.71	2.63	2.56	2.49	2.43	2.37	2.31	2.25
44	3.60	3.48	3.37	3.26	3.16	3.06	2.97	2.89	2.80	2.73	2.65	2.58	2.52	2.45	2.39	2.33
45	3.73	3.61	3.49	3.38	3.27	3.17	3.08	2.99	2.90	2.82	2.75	2.67	2.61	2.54	2.48	2.41
46	3.86	3.73	3.61	3.50	3.39	3.28	3.19	3.09	3.01	2.92	2.85	2.77	2.70	2.63	2.56	2.50
47	4.00	3.87	3.74	3.62	3.51	3.40	3.30	3.20	3.11	3.03	2.95	2.87	2.79	2.72	2.65	2.59
48	4.14	4.00	3.87	3.75	3.63	3.52	3.42	3.32	3.23	3.14	3.05	2.97	2.89	2.82	2.75	2.68
49	4.29	4.15	4.01	3.88	3.76	3.65	3.54	3.44	3.34	3.25	3.16	3.08	3.00	2.92	2.85	2.78
50	4.45	4.30	4.16	4.02	3.90	3.78	3.67	3.56	3.46	3.37	3.27	3.19	3.10	3.03	2.95	2.88
51	4.61	4.45	4.31	4.17	4.04	3.92	3.80	3.69	3.59	3.49	3.39	3.30	3.22	3.13	3.06	2.98
52	4.78	4.62	4.46	4.32	4.19	4.06	3.94	3.83	3.72	3.61	3.52	3.42	3.33	3.25	3.17	3.09
53	4.95	4.79	4.63	4.48	4.34	4.21	4.08	3.97	3.85	3.75	3.65	3.55	3.46	3.37	3.28	3.20
54	5.14	4.96	4.80	4.65	4.50	4.37	4.24	4.11	4.00	3.89	3.78	3.68	3.59	3.49	3.41	3.32
55	5.33	5.15	4.98	4.82	4.67	4.53	4.40	4.27	4.15	4.03	3.92	3.82	3.72	3.63	3.53	3.45
56	5.53	5.35	5.17	5.01	4.85	4.70	4.56	4.43	4.31	4.19	4.07	3.97	3.86	3.76	3.67	3.58
57	5.75	5.55	5.37	5.20	5.04	4.88	4.74	4.60	4.47	4.35	4.23	4.12	4.01	3.91	3.81	3.72
58	5.97	5.77	5.58	5.40	5.23	5.08	4.93	4.78	4.65	4.52	4.40	4.28	4.17	4.06	3.96	3.86
59	6.21	6.00	5.80	5.62	5.44	5.28	5.12	4.97	4.83	4.70	4.57	4.45	4.34	4.23	4.12	4.02
60	6.46	6.25	6.04	5.85	5.67	5.49	5.33	5.18	5.03	4.89	4.76	4.63	4.51	4.40	4.29	4.18
l	60 ^m	58 ^m	56 ^m	54 ^m	52 ^m	50 ^m	48 ^m	46 ^m	44 ^m	42 ^m	40 ^m	38 ^m	36 ^m	34 ^m	32 ^m	30 ^m

δ	0 ^m	2 ^m	4 ^m	6 ^m	8 ^m	10 ^m	12 ^m	14 ^m	16 ^m	18 ^m	20 ^m	22 ^m	24 ^m	26 ^m	28 ^m	30 ^m
0 ^o	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
1	0:07	0:07	0:06	0:06	0:06	0:06	0:06	0:06	0:05	0:05	0:05	0:05	0:05	0:05	0:05	0:05
2	0:13	0:13	0:13	0:12	0:12	0:12	0:11	0:11	0:11	0:10	0:10	0:10	0:10	0:10	0:09	0:09
3	0:20	0:20	0:19	0:18	0:18	0:17	0:17	0:17	0:16	0:16	0:15	0:15	0:15	0:14	0:14	0:14
4	0:27	0:26	0:25	0:25	0:24	0:23	0:23	0:22	0:22	0:21	0:20	0:20	0:20	0:19	0:19	0:18
5	0:34	0:33	0:32	0:31	0:30	0:29	0:28	0:28	0:27	0:26	0:26	0:25	0:24	0:24	0:23	0:23
6	0:41	0:39	0:38	0:37	0:36	0:35	0:34	0:33	0:32	0:31	0:31	0:30	0:29	0:29	0:28	0:27
7	0:47	0:46	0:45	0:43	0:42	0:41	0:40	0:39	0:38	0:37	0:36	0:35	0:34	0:34	0:33	0:32
8	0:54	0:53	0:51	0:49	0:48	0:47	0:45	0:44	0:43	0:42	0:41	0:40	0:39	0:38	0:38	0:37
9	0:61	0:59	0:57	0:56	0:54	0:53	0:51	0:50	0:49	0:47	0:46	0:45	0:44	0:43	0:42	0:41
10	0:68	0:66	0:64	0:62	0:60	0:59	0:57	0:56	0:54	0:53	0:52	0:50	0:49	0:48	0:47	0:46
11	0:75	0:73	0:71	0:68	0:66	0:65	0:63	0:61	0:60	0:58	0:57	0:56	0:54	0:53	0:52	0:51
12	0:82	0:80	0:77	0:75	0:73	0:71	0:69	0:67	0:65	0:64	0:62	0:61	0:59	0:58	0:57	0:56
13	0:89	0:86	0:84	0:81	0:79	0:77	0:75	0:73	0:71	0:69	0:68	0:66	0:64	0:63	0:62	0:60
14	0:96	0:93	0:90	0:88	0:85	0:83	0:81	0:79	0:77	0:75	0:73	0:71	0:70	0:68	0:67	0:65
15	1:04	1:00	0:97	0:94	0:92	0:89	0:87	0:84	0:82	0:80	0:78	0:77	0:75	0:73	0:72	0:70
16	1:11	1:07	1:04	1:01	0:98	0:95	0:93	0:90	0:88	0:86	0:84	0:82	0:80	0:78	0:77	0:75
17	1:18	1:14	1:11	1:08	1:05	1:02	0:99	0:96	0:94	0:92	0:89	0:87	0:85	0:83	0:82	0:80
18	1:26	1:22	1:18	1:14	1:11	1:08	1:05	1:02	1:00	0:97	0:95	0:93	0:91	0:89	0:87	0:85
19	1:33	1:29	1:25	1:21	1:18	1:15	1:11	1:09	1:06	1:03	1:01	0:98	0:96	0:94	0:92	0:90
20	1:41	1:36	1:32	1:28	1:24	1:21	1:18	1:15	1:12	1:09	1:06	1:04	1:02	0:99	0:97	0:95
21	1:48	1:44	1:39	1:35	1:31	1:28	1:24	1:21	1:18	1:15	1:12	1:10	1:07	1:05	1:02	1:00
22	1:56	1:51	1:47	1:42	1:38	1:34	1:31	1:27	1:24	1:21	1:18	1:15	1:13	1:10	1:08	1:06
23	1:64	1:59	1:54	1:49	1:45	1:41	1:37	1:34	1:30	1:27	1:24	1:21	1:18	1:16	1:13	1:11
24	1:72	1:67	1:62	1:57	1:52	1:48	1:44	1:40	1:37	1:33	1:30	1:27	1:24	1:21	1:19	1:16
25	1:80	1:74	1:69	1:64	1:59	1:55	1:51	1:47	1:43	1:40	1:36	1:33	1:30	1:27	1:24	1:22
26	1:88	1:83	1:77	1:72	1:67	1:62	1:58	1:54	1:50	1:46	1:43	1:39	1:36	1:33	1:30	1:27
27	1:97	1:91	1:85	1:79	1:74	1:69	1:65	1:61	1:57	1:53	1:49	1:45	1:42	1:39	1:36	1:33
28	2:05	1:99	1:93	1:87	1:82	1:77	1:72	1:68	1:63	1:59	1:55	1:52	1:48	1:45	1:42	1:39
29	2:14	2:07	2:01	1:95	1:90	1:84	1:79	1:75	1:70	1:66	1:62	1:58	1:55	1:51	1:48	1:45
30	2:23	2:16	2:09	2:03	1:97	1:92	1:87	1:82	1:77	1:73	1:69	1:65	1:61	1:58	1:54	1:51
31	2:32	2:25	2:18	2:12	2:06	2:00	1:94	1:89	1:85	1:80	1:76	1:72	1:68	1:64	1:60	1:57
32	2:41	2:34	2:27	2:20	2:14	2:08	2:02	1:97	1:92	1:87	1:83	1:78	1:74	1:70	1:67	1:63
33	2:51	2:43	2:36	2:29	2:22	2:16	2:10	2:05	1:99	1:95	1:90	1:85	1:81	1:77	1:73	1:70
34	2:61	2:52	2:45	2:37	2:31	2:24	2:18	2:13	2:07	2:02	1:97	1:93	1:88	1:84	1:80	1:76
35	2:71	2:62	2:54	2:47	2:39	2:33	2:27	2:21	2:15	2:10	2:05	2:00	1:95	1:91	1:87	1:83
36	2:81	2:72	2:64	2:56	2:48	2:42	2:35	2:29	2:23	2:18	2:12	2:07	2:03	1:98	1:94	1:90
37	2:91	2:82	2:73	2:65	2:58	2:51	2:44	2:37	2:31	2:26	2:20	2:15	2:10	2:06	2:01	1:97
38	3:02	2:92	2:83	2:75	2:67	2:60	2:53	2:46	2:40	2:34	2:28	2:23	2:18	2:13	2:09	2:04
39	3:13	3:03	2:94	2:85	2:77	2:69	2:62	2:55	2:49	2:43	2:37	2:31	2:26	2:21	2:16	2:12
40	3:24	3:14	3:04	2:95	2:87	2:79	2:72	2:64	2:58	2:51	2:45	2:40	2:34	2:29	2:24	2:19
41	3:36	3:25	3:15	3:06	2:97	2:89	2:81	2:74	2:67	2:60	2:54	2:48	2:43	2:37	2:32	2:27
42	3:48	3:37	3:27	3:17	3:08	2:99	2:91	2:84	2:77	2:70	2:63	2:57	2:51	2:46	2:40	2:35
43	3:60	3:49	3:38	3:28	3:19	3:10	3:02	2:94	2:86	2:79	2:73	2:66	2:60	2:54	2:49	2:44
44	3:73	3:61	3:50	3:40	3:30	3:21	3:13	3:04	2:97	2:89	2:82	2:76	2:69	2:63	2:58	2:52
45	3:86	3:74	3:63	3:52	3:42	3:33	3:24	3:15	3:07	3:00	2:92	2:86	2:79	2:73	2:67	2:61
46	4:00	3:87	3:76	3:65	3:54	3:44	3:35	3:26	3:18	3:10	3:03	2:96	2:89	2:83	2:76	2:71
47	4:14	4:01	3:89	3:78	3:67	3:57	3:47	3:38	3:29	3:21	3:14	3:06	2:99	2:93	2:86	2:80
48	4:29	4:16	4:03	3:91	3:80	3:69	3:59	3:50	3:41	3:33	3:25	3:17	3:10	3:03	2:96	2:90
49	4:44	4:30	4:17	4:05	3:93	3:83	3:72	3:63	3:53	3:45	3:36	3:28	3:21	3:14	3:07	3:01
50	4:60	4:46	4:32	4:20	4:08	3:96	3:86	3:76	3:66	3:57	3:48	3:40	3:33	3:25	3:18	3:11
51	4:77	4:62	4:48	4:35	4:22	4:11	4:00	3:89	3:79	3:70	3:61	3:53	3:45	3:37	3:30	3:23
52	4:95	4:79	4:64	4:51	4:38	4:26	4:14	4:03	3:93	3:83	3:74	3:65	3:57	3:49	3:42	3:34
53	5:13	4:97	4:81	4:67	4:54	4:41	4:29	4:18	4:08	3:98	3:88	3:79	3:70	3:62	3:54	3:47
54	5:32	5:15	4:99	4:85	4:71	4:58	4:45	4:34	4:23	4:12	4:02	3:93	3:84	3:76	3:67	3:60
55	5:52	5:34	5:18	5:03	4:88	4:75	4:62	4:50	4:39	4:28	4:18	4:08	3:99	3:90	3:81	3:73
56	5:73	5:55	5:38	5:22	5:07	4:93	4:80	4:67	4:55	4:44	4:33	4:23	4:14	4:05	3:96	3:87
57	5:95	5:76	5:59	5:42	5:27	5:12	4:98	4:85	4:73	4:61	4:50	4:40	4:30	4:20	4:11	4:02
58	6:18	5:99	5:81	5:63	5:47	5:32	5:18	5:04	4:92	4:79	4:68	4:57	4:47	4:37	4:27	4:18
59	6:43	6:23	6:04	5:86	5:69	5:53	5:39	5:25	5:11	4:99	4:87	4:75	4:64	4:54	4:44	4:35
60	6:69	6:48	6:28	6:10	5:92	5:76	5:61	5:46	5:32	5:19	5:06	4:95	4:83	4:73	4:62	4:53
δ	60 ^m	58 ^m	56 ^m	54 ^m	52 ^m	50 ^m	48 ^m	46 ^m	44 ^m	42 ^m	40 ^m	38 ^m	36 ^m	34 ^m	32 ^m	30 ^m

l e d do mesmo nome : sinal +
l e d de nome contrario : » -

 $P=10^h$

l and d of same name : signal +
l » d of contrary » : » -

/	30 ^m	32 ^m	34 ^m	36 ^m	38 ^m	40 ^m	42 ^m	44 ^m	46 ^m	48 ^m	50 ^m	52 ^m	54 ^m	56 ^m	58 ^m	60 ^m
0 ^o	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03
2	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06
3	0.13	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.09	0.09	0.09
4	0.17	0.16	0.16	0.16	0.15	0.15	0.15	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.12	0.12
5	0.21	0.21	0.20	0.20	0.19	0.19	0.18	0.18	0.18	0.17	0.17	0.16	0.16	0.16	0.15	0.15
6	0.25	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.19	0.19	0.19	0.18
7	0.30	0.29	0.28	0.28	0.27	0.26	0.26	0.25	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.21
8	0.34	0.33	0.32	0.32	0.31	0.30	0.29	0.29	0.28	0.28	0.27	0.26	0.26	0.25	0.25	0.24
9	0.38	0.37	0.36	0.36	0.35	0.34	0.33	0.32	0.32	0.31	0.30	0.30	0.29	0.29	0.28	0.27
10	0.43	0.42	0.41	0.40	0.39	0.38	0.37	0.36	0.35	0.35	0.34	0.33	0.32	0.32	0.31	0.31
11	0.47	0.46	0.45	0.44	0.43	0.42	0.41	0.40	0.39	0.38	0.37	0.37	0.36	0.35	0.34	0.34
12	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.41	0.40	0.39	0.38	0.38	0.37
13	0.56	0.54	0.53	0.52	0.51	0.50	0.48	0.47	0.46	0.45	0.44	0.43	0.43	0.42	0.41	0.40
14	0.60	0.59	0.57	0.56	0.55	0.53	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.43
15	0.65	0.63	0.62	0.60	0.59	0.57	0.56	0.55	0.54	0.53	0.51	0.50	0.49	0.48	0.47	0.46
16	0.69	0.68	0.66	0.64	0.63	0.61	0.60	0.59	0.58	0.56	0.55	0.54	0.53	0.52	0.51	0.50
17	0.74	0.72	0.70	0.69	0.67	0.66	0.64	0.63	0.61	0.60	0.59	0.57	0.56	0.55	0.54	0.53
18	0.78	0.77	0.75	0.73	0.71	0.70	0.68	0.67	0.65	0.64	0.62	0.61	0.60	0.59	0.57	0.56
19	0.83	0.81	0.79	0.77	0.76	0.74	0.72	0.71	0.69	0.68	0.66	0.65	0.63	0.62	0.61	0.60
20	0.88	0.86	0.84	0.82	0.80	0.78	0.76	0.75	0.73	0.71	0.70	0.68	0.67	0.66	0.64	0.63
21	0.93	0.90	0.88	0.86	0.84	0.82	0.80	0.79	0.77	0.75	0.74	0.72	0.71	0.69	0.68	0.66
22	0.98	0.95	0.93	0.91	0.89	0.87	0.85	0.83	0.81	0.79	0.78	0.76	0.74	0.73	0.71	0.70
23	1.02	1.00	0.98	0.95	0.93	0.91	0.89	0.87	0.85	0.83	0.82	0.80	0.78	0.77	0.75	0.74
24	1.07	1.05	1.02	1.00	0.98	0.95	0.93	0.91	0.89	0.87	0.86	0.84	0.82	0.80	0.79	0.77
25	1.13	1.10	1.07	1.05	1.02	1.00	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.84	0.82	0.81
26	1.18	1.15	1.12	1.10	1.07	1.05	1.02	1.00	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.84
27	1.23	1.20	1.17	1.14	1.12	1.09	1.07	1.04	1.02	1.00	0.98	0.96	0.94	0.92	0.90	0.88
28	1.28	1.25	1.22	1.19	1.17	1.14	1.11	1.09	1.07	1.04	1.02	1.00	0.98	0.96	0.94	0.92
29	1.34	1.31	1.27	1.24	1.22	1.19	1.16	1.14	1.11	1.09	1.06	1.04	1.02	1.00	0.98	0.96
30	1.39	1.36	1.33	1.30	1.27	1.24	1.21	1.18	1.16	1.13	1.11	1.09	1.06	1.04	1.02	1.00
31	1.45	1.42	1.38	1.35	1.32	1.29	1.26	1.23	1.21	1.18	1.15	1.13	1.11	1.08	1.06	1.04
32	1.51	1.47	1.44	1.40	1.37	1.34	1.31	1.28	1.25	1.23	1.20	1.18	1.15	1.13	1.10	1.08
33	1.57	1.53	1.49	1.46	1.42	1.39	1.36	1.33	1.30	1.27	1.25	1.22	1.20	1.17	1.15	1.12
34	1.63	1.59	1.55	1.51	1.48	1.45	1.41	1.38	1.35	1.32	1.30	1.27	1.24	1.22	1.19	1.17
35	1.69	1.65	1.61	1.57	1.54	1.50	1.47	1.44	1.40	1.37	1.35	1.32	1.29	1.26	1.24	1.21
36	1.75	1.71	1.67	1.63	1.59	1.56	1.52	1.49	1.46	1.43	1.40	1.37	1.34	1.31	1.28	1.26
37	1.82	1.78	1.73	1.69	1.65	1.62	1.58	1.55	1.51	1.48	1.45	1.42	1.39	1.36	1.33	1.31
38	1.89	1.84	1.80	1.75	1.71	1.68	1.64	1.60	1.57	1.53	1.50	1.47	1.44	1.41	1.38	1.35
39	1.95	1.91	1.86	1.82	1.78	1.74	1.70	1.66	1.62	1.59	1.56	1.52	1.49	1.46	1.43	1.40
40	2.03	1.98	1.93	1.88	1.84	1.80	1.76	1.72	1.68	1.65	1.61	1.58	1.55	1.51	1.48	1.45
41	2.10	2.05	2.00	1.95	1.91	1.86	1.82	1.78	1.74	1.71	1.67	1.63	1.60	1.57	1.54	1.51
42	2.17	2.12	2.07	2.02	1.98	1.93	1.89	1.85	1.81	1.77	1.73	1.69	1.66	1.62	1.59	1.56
43	2.25	2.20	2.14	2.09	2.05	2.00	1.96	1.91	1.87	1.83	1.79	1.75	1.72	1.68	1.65	1.62
44	2.33	2.28	2.22	2.17	2.12	2.07	2.02	1.98	1.94	1.90	1.86	1.82	1.78	1.74	1.71	1.67
45	2.41	2.36	2.30	2.25	2.19	2.14	2.10	2.05	2.01	1.96	1.92	1.88	1.84	1.80	1.77	1.73
46	2.50	2.44	2.38	2.33	2.27	2.22	2.17	2.12	2.08	2.03	1.99	1.95	1.91	1.87	1.83	1.79
47	2.59	2.53	2.47	2.41	2.35	2.30	2.25	2.20	2.15	2.10	2.06	2.02	1.98	1.93	1.90	1.86
48	2.68	2.62	2.55	2.49	2.44	2.38	2.33	2.28	2.23	2.18	2.13	2.09	2.05	2.00	1.96	1.92
49	2.78	2.71	2.65	2.58	2.52	2.47	2.41	2.36	2.31	2.26	2.21	2.16	2.12	2.08	2.03	1.99
50	2.88	2.81	2.74	2.68	2.62	2.56	2.50	2.44	2.39	2.34	2.29	2.24	2.19	2.15	2.11	2.06
51	2.98	2.91	2.84	2.77	2.71	2.65	2.59	2.53	2.48	2.42	2.37	2.32	2.27	2.23	2.18	2.14
52	3.09	3.02	2.94	2.87	2.81	2.74	2.68	2.62	2.57	2.51	2.46	2.41	2.36	2.31	2.26	2.22
53	3.20	3.13	3.05	2.98	2.91	2.85	2.78	2.72	2.66	2.60	2.55	2.50	2.44	2.39	2.35	2.30
54	3.32	3.24	3.17	3.09	3.02	2.95	2.89	2.82	2.76	2.70	2.64	2.59	2.53	2.48	2.43	2.38
55	3.45	3.36	3.28	3.21	3.13	3.06	2.99	2.93	2.86	2.80	2.74	2.69	2.63	2.58	2.52	2.47
56	3.58	3.49	3.41	3.33	3.25	3.18	3.11	3.04	2.97	2.91	2.85	2.79	2.73	2.67	2.62	2.57
57	3.72	3.63	3.54	3.46	3.38	3.30	3.23	3.16	3.09	3.02	2.96	2.90	2.84	2.78	2.72	2.67
58	3.86	3.77	3.68	3.59	3.51	3.43	3.36	3.28	3.21	3.14	3.07	3.01	2.95	2.89	2.83	2.77
59	4.02	3.92	3.83	3.74	3.65	3.57	3.49	3.41	3.34	3.27	3.20	3.13	3.07	3.00	2.94	2.88
60	4.18	4.08	3.98	3.89	3.80	3.71	3.63	3.55	3.47	3.40	3.33	3.26	3.19	3.12	3.06	3.00
/	30 ^m	28 ^m	26 ^m	24 ^m	22 ^m	20 ^m	18 ^m	16 ^m	14 ^m	12 ^m	10 ^m	8 ^m	6 ^m	4 ^m	2 ^m	0 ^m

Taboa XIV

 $P=1^h$

Table XIV

b

δ	30 ^m	32 ^m	34 ^m	36 ^m	38 ^m	40 ^m	42 ^m	44 ^m	46 ^m	48 ^m	50 ^m	52 ^m	54 ^m	56 ^m	58 ^m	60 ^m
0 ^o	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
1	0:05	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:03
2	0:09	0:09	0:09	0:09	0:08	0:08	0:08	0:08	0:08	0:08	0:08	0:07	0:07	0:07	0:07	0:07
3	0:14	0:13	0:13	0:13	0:13	0:12	0:12	0:12	0:12	0:12	0:11	0:11	0:11	0:11	0:11	0:10
4	0:18	0:18	0:18	0:17	0:17	0:17	0:16	0:16	0:16	0:15	0:15	0:15	0:15	0:14	0:14	0:14
5	0:23	0:22	0:22	0:22	0:21	0:21	0:20	0:20	0:20	0:19	0:19	0:19	0:18	0:18	0:18	0:17
6	0:27	0:27	0:26	0:26	0:25	0:25	0:24	0:24	0:24	0:23	0:23	0:22	0:22	0:22	0:21	0:21
7	0:32	0:31	0:31	0:30	0:30	0:29	0:29	0:28	0:28	0:27	0:27	0:26	0:26	0:25	0:25	0:25
8	0:37	0:36	0:35	0:35	0:34	0:33	0:33	0:32	0:32	0:31	0:30	0:30	0:29	0:29	0:29	0:28
9	0:41	0:41	0:40	0:39	0:38	0:37	0:37	0:36	0:35	0:35	0:34	0:34	0:33	0:33	0:32	0:32
10	0:46	0:45	0:44	0:43	0:43	0:42	0:41	0:40	0:40	0:39	0:38	0:38	0:37	0:36	0:36	0:35
11	0:51	0:50	0:49	0:48	0:47	0:46	0:45	0:44	0:44	0:43	0:42	0:41	0:41	0:40	0:39	0:39
12	0:56	0:54	0:53	0:52	0:51	0:50	0:49	0:48	0:48	0:47	0:46	0:45	0:44	0:44	0:43	0:43
13	0:60	0:59	0:58	0:57	0:56	0:55	0:54	0:53	0:52	0:51	0:50	0:49	0:48	0:48	0:47	0:46
14	0:65	0:64	0:63	0:61	0:60	0:59	0:58	0:57	0:56	0:55	0:54	0:53	0:52	0:51	0:51	0:50
15	0:70	0:69	0:67	0:66	0:65	0:63	0:62	0:61	0:60	0:59	0:58	0:57	0:56	0:55	0:54	0:54
16	0:75	0:73	0:72	0:70	0:69	0:68	0:67	0:65	0:64	0:63	0:62	0:61	0:60	0:59	0:58	0:57
17	0:80	0:78	0:77	0:75	0:74	0:72	0:71	0:70	0:69	0:67	0:66	0:65	0:64	0:63	0:62	0:61
18	0:85	0:83	0:81	0:80	0:78	0:77	0:75	0:74	0:73	0:72	0:70	0:69	0:68	0:67	0:66	0:65
19	0:90	0:88	0:86	0:85	0:83	0:81	0:80	0:79	0:77	0:76	0:75	0:73	0:72	0:71	0:70	0:69
20	0:95	0:93	0:91	0:89	0:88	0:86	0:85	0:83	0:82	0:80	0:79	0:78	0:76	0:75	0:74	0:73
21	1:00	0:98	0:96	0:94	0:93	0:91	0:89	0:88	0:86	0:85	0:83	0:82	0:80	0:79	0:78	0:77
22	1:06	1:03	1:01	0:99	0:97	0:96	0:94	0:92	0:91	0:89	0:87	0:86	0:85	0:83	0:82	0:81
23	1:11	1:09	1:06	1:04	1:02	1:00	0:99	0:97	0:95	0:93	0:92	0:90	0:89	0:88	0:86	0:85
24	1:16	1:14	1:12	1:09	1:07	1:05	1:03	1:02	1:00	0:98	0:96	0:95	0:93	0:92	0:90	0:89
25	1:22	1:19	1:17	1:15	1:12	1:10	1:08	1:06	1:05	1:03	1:01	0:99	0:98	0:96	0:95	0:93
26	1:27	1:25	1:22	1:20	1:18	1:15	1:13	1:11	1:09	1:07	1:06	1:04	1:02	1:01	0:99	0:98
27	1:33	1:30	1:28	1:25	1:23	1:21	1:18	1:16	1:14	1:12	1:10	1:09	1:07	1:05	1:03	1:02
28	1:39	1:36	1:33	1:31	1:28	1:26	1:24	1:21	1:19	1:17	1:15	1:13	1:11	1:10	1:08	1:06
29	1:45	1:42	1:39	1:36	1:34	1:31	1:29	1:26	1:24	1:22	1:20	1:18	1:16	1:14	1:13	1:11
30	1:51	1:48	1:45	1:42	1:39	1:37	1:34	1:32	1:29	1:27	1:25	1:23	1:21	1:19	1:17	1:15
31	1:57	1:54	1:51	1:48	1:45	1:42	1:40	1:37	1:35	1:32	1:30	1:28	1:26	1:24	1:22	1:20
32	1:63	1:60	1:57	1:54	1:51	1:48	1:45	1:43	1:40	1:38	1:35	1:33	1:31	1:29	1:27	1:25
33	1:70	1:66	1:63	1:60	1:57	1:54	1:51	1:48	1:46	1:43	1:41	1:38	1:36	1:34	1:32	1:30
34	1:76	1:73	1:69	1:66	1:63	1:60	1:57	1:54	1:51	1:49	1:46	1:44	1:41	1:39	1:37	1:35
35	1:83	1:79	1:76	1:72	1:69	1:66	1:63	1:60	1:57	1:54	1:52	1:49	1:47	1:44	1:42	1:40
36	1:90	1:86	1:82	1:79	1:75	1:72	1:69	1:66	1:63	1:60	1:57	1:55	1:52	1:50	1:48	1:45
37	1:97	1:93	1:89	1:85	1:82	1:78	1:75	1:72	1:69	1:66	1:63	1:61	1:58	1:55	1:53	1:51
38	2:04	2:00	1:96	1:92	1:88	1:85	1:81	1:78	1:75	1:72	1:69	1:66	1:64	1:61	1:59	1:56
39	2:12	2:07	2:03	1:99	1:95	1:92	1:88	1:85	1:81	1:78	1:75	1:72	1:70	1:67	1:64	1:62
40	2:19	2:15	2:10	2:06	2:02	1:99	1:95	1:91	1:88	1:85	1:82	1:79	1:76	1:73	1:70	1:68
41	2:27	2:22	2:18	2:14	2:10	2:06	2:02	1:98	1:95	1:91	1:88	1:85	1:82	1:79	1:77	1:74
42	2:35	2:30	2:26	2:21	2:17	2:13	2:09	2:05	2:02	1:98	1:95	1:92	1:89	1:86	1:83	1:80
43	2:44	2:39	2:34	2:29	2:25	2:21	2:17	2:13	2:09	2:05	2:02	1:99	1:95	1:92	1:89	1:87
44	2:52	2:47	2:42	2:37	2:33	2:29	2:24	2:20	2:16	2:13	2:09	2:06	2:02	1:99	1:96	1:93
45	2:61	2:56	2:51	2:46	2:41	2:37	2:32	2:28	2:24	2:20	2:17	2:13	2:10	2:06	2:03	2:00
46	2:71	2:65	2:60	2:55	2:50	2:45	2:41	2:36	2:32	2:28	2:24	2:21	2:17	2:14	2:10	2:07
47	2:80	2:74	2:69	2:64	2:59	2:54	2:49	2:45	2:40	2:36	2:32	2:28	2:25	2:21	2:18	2:14
48	2:90	2:84	2:79	2:73	2:68	2:63	2:58	2:53	2:49	2:45	2:41	2:37	2:33	2:29	2:26	2:22
49	3:01	2:94	2:88	2:83	2:77	2:72	2:67	2:62	2:58	2:53	2:49	2:45	2:41	2:37	2:34	2:30
50	3:11	3:05	2:99	2:93	2:87	2:82	2:77	2:72	2:67	2:63	2:58	2:54	2:50	2:46	2:42	2:38
51	3:23	3:16	3:10	3:04	2:98	2:92	2:87	2:82	2:77	2:72	2:67	2:63	2:59	2:55	2:51	2:47
52	3:34	3:28	3:21	3:15	3:09	3:03	2:97	2:92	2:87	2:82	2:77	2:73	2:68	2:64	2:60	2:56
53	3:47	3:40	3:33	3:26	3:20	3:14	3:08	3:03	2:97	2:92	2:87	2:83	2:78	2:74	2:69	2:65
54	3:60	3:52	3:45	3:38	3:32	3:26	3:20	3:14	3:08	3:03	2:98	2:93	2:88	2:84	2:80	2:75
55	3:73	3:66	3:58	3:51	3:44	3:38	3:32	3:26	3:20	3:15	3:09	3:04	2:99	2:95	2:90	2:86
56	3:87	3:79	3:72	3:65	3:58	3:51	3:44	3:38	3:32	3:27	3:21	3:16	3:11	3:06	3:01	2:97
57	4:02	3:94	3:86	3:79	3:71	3:64	3:58	3:51	3:45	3:39	3:33	3:28	3:23	3:18	3:13	3:08
58	4:18	4:10	4:01	3:93	3:86	3:79	3:72	3:65	3:59	3:53	3:47	3:41	3:35	3:30	3:25	3:20
59	4:35	4:26	4:17	4:09	4:01	3:94	3:87	3:80	3:73	3:67	3:60	3:55	3:49	3:43	3:38	3:33
60	4:53	4:43	4:34	4:26	4:18	4:10	4:02	3:95	3:88	3:82	3:75	3:69	3:63	3:57	3:52	3:46
δ	30 ^m	28 ^m	26 ^m	24 ^m	22 ^m	20 ^m	18 ^m	16 ^m	14 ^m	12 ^m	10 ^m	8 ^m	6 ^m	4 ^m	2 ^m	0 ^m

l e d do mesmo nome: sinal +
l e d de nome contrario: » -

 $P=10^h$

l and d of same name: signal +
l » d of contrary »: » -

l	0 ^m	4 ^m	8 ^m	12 ^m	16 ^m	20 ^m	24 ^m	28 ^m	32 ^m	36 ^m	40 ^m	44 ^m	48 ^m	52 ^m	56 ^m	60 ^m
0 ^o	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
2	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03
3	0.09	0.09	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.05	0.05
4	0.12	0.12	0.11	0.11	0.10	0.10	0.10	0.09	0.09	0.09	0.08	0.08	0.08	0.07	0.07	0.07
5	0.15	0.15	0.14	0.13	0.13	0.12	0.12	0.12	0.11	0.11	0.10	0.10	0.10	0.09	0.09	0.09
6	0.18	0.17	0.17	0.16	0.16	0.15	0.14	0.14	0.13	0.13	0.13	0.12	0.12	0.11	0.11	0.11
7	0.21	0.20	0.20	0.19	0.18	0.18	0.17	0.16	0.16	0.15	0.15	0.14	0.14	0.13	0.13	0.12
8	0.24	0.23	0.22	0.22	0.21	0.20	0.19	0.19	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.14
9	0.27	0.26	0.25	0.24	0.23	0.23	0.22	0.21	0.20	0.20	0.19	0.18	0.18	0.17	0.16	0.15
10	0.31	0.29	0.28	0.27	0.26	0.25	0.24	0.23	0.23	0.22	0.21	0.20	0.20	0.19	0.18	0.18
11	0.34	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.25	0.24	0.23	0.22	0.22	0.21	0.20	0.19
12	0.37	0.35	0.34	0.33	0.32	0.30	0.29	0.28	0.27	0.26	0.25	0.24	0.24	0.23	0.22	0.21
13	0.40	0.38	0.37	0.36	0.34	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.25	0.24	0.23
14	0.43	0.41	0.40	0.38	0.37	0.36	0.34	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.25
15	0.46	0.45	0.43	0.41	0.40	0.38	0.37	0.36	0.34	0.33	0.32	0.31	0.30	0.29	0.28	0.27
16	0.50	0.48	0.46	0.44	0.43	0.41	0.39	0.38	0.37	0.36	0.34	0.33	0.32	0.31	0.30	0.29
17	0.53	0.51	0.49	0.47	0.45	0.44	0.42	0.41	0.39	0.38	0.36	0.35	0.34	0.33	0.32	0.31
18	0.56	0.54	0.52	0.50	0.48	0.46	0.45	0.43	0.42	0.40	0.39	0.37	0.36	0.35	0.34	0.32
19	0.60	0.57	0.55	0.53	0.51	0.49	0.47	0.46	0.44	0.43	0.41	0.40	0.38	0.37	0.36	0.34
20	0.63	0.61	0.58	0.56	0.54	0.52	0.50	0.48	0.47	0.45	0.43	0.42	0.40	0.39	0.38	0.36
21	0.66	0.64	0.61	0.59	0.57	0.55	0.53	0.51	0.49	0.47	0.46	0.44	0.43	0.41	0.40	0.38
22	0.70	0.67	0.65	0.62	0.60	0.58	0.56	0.54	0.52	0.50	0.48	0.46	0.45	0.43	0.42	0.40
23	0.74	0.71	0.68	0.65	0.63	0.61	0.58	0.56	0.54	0.52	0.51	0.49	0.47	0.46	0.44	0.42
24	0.77	0.74	0.71	0.69	0.66	0.64	0.61	0.59	0.57	0.55	0.53	0.51	0.49	0.48	0.46	0.45
25	0.81	0.78	0.75	0.72	0.69	0.67	0.64	0.62	0.60	0.58	0.56	0.54	0.52	0.50	0.48	0.47
26	0.84	0.81	0.78	0.75	0.72	0.70	0.67	0.65	0.62	0.60	0.58	0.56	0.54	0.52	0.51	0.49
27	0.88	0.85	0.82	0.78	0.76	0.73	0.70	0.68	0.65	0.63	0.61	0.59	0.57	0.55	0.53	0.51
28	0.92	0.88	0.85	0.82	0.79	0.76	0.73	0.71	0.68	0.66	0.63	0.61	0.59	0.57	0.55	0.53
29	0.96	0.92	0.89	0.85	0.82	0.79	0.76	0.74	0.71	0.68	0.66	0.64	0.62	0.59	0.57	0.55
30	1.00	0.96	0.92	0.89	0.86	0.82	0.79	0.77	0.74	0.71	0.69	0.66	0.64	0.62	0.60	0.58
31	1.04	1.00	0.96	0.93	0.89	0.86	0.83	0.80	0.77	0.74	0.72	0.69	0.67	0.64	0.62	0.60
32	1.08	1.04	1.00	0.96	0.93	0.89	0.86	0.83	0.80	0.77	0.74	0.72	0.69	0.67	0.65	0.62
33	1.12	1.08	1.04	1.00	0.96	0.93	0.89	0.86	0.83	0.80	0.77	0.75	0.72	0.70	0.67	0.65
34	1.17	1.12	1.08	1.04	1.00	0.96	0.93	0.90	0.86	0.83	0.80	0.78	0.75	0.72	0.70	0.67
35	1.21	1.17	1.12	1.08	1.04	1.00	0.96	0.93	0.90	0.86	0.83	0.81	0.78	0.75	0.73	0.70
36	1.26	1.21	1.16	1.12	1.08	1.04	1.00	0.96	0.93	0.90	0.87	0.84	0.81	0.78	0.75	0.73
37	1.31	1.25	1.21	1.16	1.12	1.08	1.04	1.00	0.96	0.93	0.90	0.87	0.84	0.81	0.78	0.75
38	1.35	1.30	1.25	1.20	1.16	1.12	1.08	1.04	1.00	0.96	0.93	0.90	0.87	0.84	0.81	0.78
39	1.40	1.35	1.30	1.25	1.20	1.16	1.11	1.07	1.04	1.00	0.97	0.93	0.90	0.87	0.84	0.81
40	1.45	1.40	1.34	1.29	1.24	1.20	1.15	1.11	1.07	1.04	1.00	0.97	0.93	0.90	0.87	0.84
41	1.51	1.45	1.39	1.34	1.29	1.24	1.20	1.15	1.11	1.07	1.04	1.00	0.97	0.93	0.90	0.87
42	1.56	1.50	1.44	1.39	1.33	1.29	1.24	1.19	1.15	1.11	1.07	1.04	1.00	0.97	0.93	0.90
43	1.62	1.55	1.49	1.44	1.38	1.33	1.28	1.24	1.19	1.15	1.11	1.07	1.04	1.00	0.97	0.93
44	1.67	1.61	1.55	1.49	1.43	1.38	1.33	1.28	1.24	1.19	1.15	1.11	1.07	1.04	1.00	0.97
45	1.73	1.66	1.60	1.54	1.48	1.43	1.38	1.33	1.28	1.23	1.19	1.15	1.11	1.07	1.04	1.00
46	1.79	1.72	1.66	1.59	1.54	1.48	1.43	1.37	1.33	1.28	1.23	1.19	1.15	1.11	1.07	1.04
47	1.86	1.78	1.72	1.65	1.59	1.53	1.48	1.42	1.37	1.32	1.28	1.23	1.19	1.15	1.11	1.07
48	1.92	1.85	1.78	1.71	1.65	1.59	1.53	1.47	1.42	1.37	1.32	1.28	1.23	1.19	1.15	1.11
49	1.99	1.91	1.84	1.77	1.71	1.64	1.58	1.53	1.47	1.42	1.37	1.32	1.28	1.23	1.19	1.15
50	2.06	1.98	1.91	1.84	1.77	1.70	1.64	1.58	1.53	1.47	1.42	1.37	1.32	1.28	1.23	1.19
51	2.14	2.06	1.98	1.90	1.83	1.76	1.70	1.64	1.58	1.52	1.47	1.42	1.37	1.32	1.28	1.23
52	2.22	2.13	2.05	1.97	1.90	1.83	1.76	1.70	1.64	1.58	1.53	1.47	1.42	1.37	1.33	1.28
53	2.30	2.21	2.12	2.04	1.97	1.90	1.83	1.76	1.70	1.64	1.58	1.53	1.47	1.42	1.37	1.33
54	2.38	2.29	2.20	2.12	2.04	1.97	1.89	1.83	1.76	1.70	1.64	1.58	1.53	1.48	1.43	1.38
55	2.47	2.38	2.29	2.20	2.12	2.04	1.97	1.90	1.83	1.76	1.70	1.64	1.59	1.53	1.48	1.43
56	2.57	2.47	2.37	2.28	2.20	2.12	2.04	1.97	1.90	1.83	1.77	1.71	1.65	1.59	1.54	1.48
57	2.67	2.56	2.46	2.37	2.28	2.20	2.12	2.04	1.97	1.90	1.84	1.77	1.71	1.65	1.59	1.54
58	2.77	2.66	2.56	2.46	2.37	2.29	2.20	2.12	2.05	1.98	1.91	1.84	1.78	1.72	1.66	1.60
59	2.88	2.77	2.66	2.56	2.47	2.38	2.29	2.21	2.13	2.06	1.98	1.91	1.85	1.78	1.72	1.66
60	3.00	2.88	2.77	2.67	2.57	2.47	2.38	2.30	2.22	2.14	2.06	1.99	1.92	1.86	1.79	1.73
l	60 ^m	56 ^m	52 ^m	48 ^m	44 ^m	40 ^m	36 ^m	32 ^m	28 ^m	24 ^m	20 ^m	16 ^m	12 ^m	8 ^m	4 ^m	0 ^m

Taboa XIV

 $P=2^h$

Table XIV

b

δ	0 ^m	4 ^m	8 ^m	12 ^m	16 ^m	20 ^m	24 ^m	28 ^m	32 ^m	36 ^m	40 ^m	44 ^m	48 ^m	52 ^m	56 ^m	60 ^m
0°	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00
1	0-03	0-03	0-03	0-03	0-03	0-03	0-03	0-03	0-03	0-03	0-03	0-03	0-03	0-03	0-03	0-02
2	0-07	0-07	0-07	0-06	0-06	0-06	0-06	0-06	0-06	0-06	0-05	0-05	0-05	0-05	0-05	0-05
3	0-10	0-10	0-10	0-10	0-09	0-09	0-09	0-09	0-09	0-08	0-08	0-08	0-08	0-08	0-08	0-07
4	0-14	0-14	0-13	0-13	0-13	0-12	0-12	0-12	0-11	0-11	0-11	0-11	0-10	0-10	0-10	0-10
5	0-17	0-17	0-17	0-16	0-16	0-15	0-15	0-15	0-14	0-14	0-14	0-13	0-13	0-13	0-13	0-12
6	0-21	0-20	0-20	0-19	0-19	0-18	0-18	0-17	0-17	0-17	0-16	0-16	0-16	0-15	0-15	0-15
7	0-25	0-24	0-23	0-23	0-22	0-21	0-21	0-20	0-20	0-20	0-19	0-19	0-18	0-18	0-18	0-17
8	0-28	0-27	0-27	0-26	0-25	0-25	0-24	0-23	0-23	0-22	0-22	0-21	0-21	0-21	0-20	0-20
9	0-32	0-31	0-30	0-29	0-28	0-28	0-27	0-26	0-26	0-25	0-25	0-24	0-24	0-23	0-23	0-22
10	0-35	0-34	0-33	0-32	0-32	0-31	0-30	0-29	0-29	0-28	0-27	0-27	0-26	0-26	0-25	0-25
11	0-39	0-38	0-37	0-36	0-35	0-34	0-33	0-32	0-32	0-31	0-30	0-30	0-29	0-29	0-28	0-27
12	0-43	0-41	0-40	0-39	0-38	0-37	0-36	0-35	0-35	0-34	0-33	0-32	0-32	0-31	0-31	0-30
13	0-46	0-45	0-44	0-42	0-41	0-40	0-39	0-38	0-37	0-37	0-36	0-35	0-35	0-34	0-33	0-33
14	0-50	0-48	0-47	0-46	0-45	0-43	0-42	0-41	0-40	0-40	0-39	0-38	0-37	0-37	0-36	0-35
15	0-54	0-52	0-51	0-49	0-48	0-47	0-46	0-45	0-44	0-43	0-42	0-41	0-40	0-39	0-39	0-38
16	0-57	0-56	0-54	0-53	0-51	0-50	0-49	0-48	0-47	0-46	0-45	0-44	0-43	0-42	0-41	0-41
17	0-61	0-59	0-58	0-56	0-55	0-53	0-52	0-51	0-50	0-49	0-48	0-47	0-46	0-45	0-44	0-43
18	0-65	0-63	0-61	0-60	0-58	0-57	0-55	0-54	0-53	0-52	0-51	0-50	0-49	0-48	0-47	0-46
19	0-69	0-67	0-65	0-63	0-62	0-60	0-59	0-57	0-56	0-55	0-54	0-52	0-51	0-50	0-50	0-49
20	0-73	0-71	0-69	0-67	0-65	0-63	0-62	0-60	0-59	0-58	0-57	0-55	0-54	0-53	0-52	0-51
21	0-77	0-75	0-72	0-70	0-69	0-67	0-65	0-64	0-62	0-61	0-60	0-59	0-57	0-56	0-55	0-54
22	0-81	0-78	0-76	0-74	0-72	0-70	0-69	0-67	0-66	0-64	0-63	0-62	0-60	0-59	0-58	0-57
23	0-85	0-82	0-80	0-78	0-76	0-74	0-72	0-71	0-69	0-67	0-66	0-65	0-63	0-62	0-61	0-60
24	0-89	0-86	0-84	0-82	0-80	0-78	0-76	0-74	0-72	0-71	0-69	0-68	0-67	0-65	0-64	0-63
25	0-93	0-91	0-88	0-86	0-83	0-81	0-79	0-77	0-76	0-74	0-73	0-71	0-70	0-68	0-67	0-66
26	0-98	0-95	0-92	0-90	0-87	0-85	0-83	0-81	0-79	0-78	0-76	0-74	0-73	0-72	0-70	0-69
27	1-02	0-99	0-96	0-94	0-91	0-89	0-87	0-85	0-83	0-81	0-79	0-78	0-76	0-75	0-73	0-72
28	1-06	1-03	1-00	0-98	0-95	0-93	0-90	0-88	0-86	0-84	0-83	0-81	0-79	0-78	0-77	0-75
29	1-11	1-08	1-05	1-02	0-99	0-97	0-94	0-92	0-90	0-88	0-86	0-84	0-83	0-81	0-80	0-78
30	1-15	1-12	1-09	1-06	1-03	1-01	0-98	0-96	0-94	0-92	0-90	0-88	0-86	0-85	0-83	0-82
31	1-20	1-17	1-13	1-10	1-07	1-05	1-02	1-00	0-98	0-95	0-93	0-92	0-90	0-88	0-86	0-85
32	1-25	1-21	1-18	1-15	1-12	1-09	1-06	1-04	1-01	0-99	0-97	0-95	0-93	0-92	0-90	0-88
33	1-30	1-26	1-23	1-19	1-16	1-13	1-10	1-08	1-05	1-03	1-01	0-99	0-97	0-95	0-93	0-92
34	1-35	1-31	1-27	1-24	1-21	1-18	1-15	1-12	1-10	1-07	1-05	1-03	1-01	0-99	0-97	0-95
35	1-40	1-36	1-32	1-29	1-25	1-22	1-19	1-16	1-14	1-11	1-09	1-07	1-05	1-03	1-01	0-99
36	1-45	1-41	1-37	1-33	1-30	1-27	1-24	1-21	1-18	1-15	1-13	1-11	1-09	1-07	1-05	1-03
37	1-51	1-46	1-42	1-38	1-35	1-31	1-28	1-25	1-22	1-20	1-17	1-15	1-13	1-10	1-08	1-07
38	1-56	1-52	1-47	1-43	1-40	1-36	1-33	1-30	1-27	1-24	1-22	1-19	1-17	1-15	1-12	1-10
39	1-62	1-57	1-53	1-49	1-45	1-41	1-38	1-35	1-32	1-29	1-26	1-23	1-21	1-19	1-17	1-15
40	1-68	1-63	1-58	1-54	1-50	1-46	1-43	1-39	1-36	1-33	1-31	1-28	1-25	1-23	1-21	1-19
41	1-74	1-69	1-64	1-60	1-55	1-52	1-48	1-44	1-41	1-38	1-35	1-33	1-30	1-27	1-25	1-23
42	1-80	1-75	1-70	1-65	1-61	1-57	1-53	1-50	1-46	1-43	1-40	1-37	1-35	1-32	1-30	1-27
43	1-87	1-81	1-76	1-71	1-67	1-63	1-59	1-55	1-51	1-48	1-45	1-42	1-39	1-37	1-34	1-32
44	1-93	1-87	1-82	1-77	1-73	1-68	1-64	1-60	1-57	1-53	1-50	1-47	1-44	1-42	1-39	1-37
45	2-00	1-94	1-89	1-84	1-79	1-74	1-70	1-66	1-62	1-59	1-56	1-52	1-49	1-47	1-44	1-41
46	2-07	2-01	1-95	1-90	1-85	1-81	1-76	1-72	1-68	1-65	1-61	1-58	1-55	1-52	1-49	1-46
47	2-14	2-08	2-02	1-97	1-92	1-87	1-82	1-78	1-74	1-70	1-67	1-63	1-60	1-57	1-54	1-52
48	2-22	2-16	2-10	2-04	1-99	1-94	1-89	1-85	1-80	1-76	1-73	1-69	1-66	1-63	1-60	1-57
49	2-30	2-23	2-17	2-11	2-06	2-01	1-96	1-91	1-87	1-83	1-79	1-75	1-72	1-69	1-66	1-63
50	2-38	2-31	2-25	2-19	2-13	2-08	2-03	1-98	1-94	1-89	1-85	1-82	1-78	1-75	1-72	1-69
51	2-47	2-40	2-33	2-27	2-21	2-15	2-10	2-05	2-01	1-96	1-92	1-88	1-85	1-81	1-78	1-75
52	2-56	2-49	2-42	2-35	2-29	2-23	2-18	2-13	2-08	2-03	1-99	1-95	1-91	1-88	1-84	1-81
53	2-65	2-58	2-50	2-44	2-37	2-31	2-26	2-21	2-16	2-11	2-06	2-02	1-98	1-95	1-91	1-88
54	2-75	2-67	2-60	2-53	2-46	2-40	2-34	2-29	2-24	2-19	2-14	2-10	2-06	2-02	1-98	1-95
55	2-86	2-77	2-70	2-62	2-55	2-49	2-43	2-37	2-32	2-27	2-22	2-18	2-13	2-09	2-06	2-02
56	2-97	2-88	2-80	2-72	2-65	2-58	2-52	2-46	2-41	2-36	2-31	2-26	2-22	2-17	2-13	2-10
57	3-08	2-99	2-91	2-83	2-75	2-68	2-62	2-56	2-50	2-45	2-40	2-35	2-30	2-26	2-22	2-18
58	3-20	3-11	3-02	2-94	2-86	2-79	2-72	2-66	2-60	2-54	2-49	2-44	2-39	2-35	2-30	2-26
59	3-33	3-23	3-14	3-06	2-98	2-90	2-83	2-77	2-70	2-64	2-59	2-54	2-49	2-44	2-40	2-35
60	3-46	3-36	3-27	3-18	3-10	3-02	2-95	2-88	2-81	2-75	2-69	2-64	2-59	2-54	2-49	2-45
δ	60 ^m	56 ^m	52 ^m	48 ^m	44 ^m	40 ^m	36 ^m	32 ^m	28 ^m	24 ^m	20 ^m	16 ^m	12 ^m	8 ^m	4 ^m	0 ^m

l e d do mesmo nome: sinal +

l e d de nome contrario: » -

 $P=9^h$

l and d of same name: signal +

l » d of contrary »: » -

l	0 ^m	4 ^m	8 ^m	12 ^m	16 ^m	20 ^m	24 ^m	28 ^m	32 ^m	36 ^m	40 ^m	44 ^m	48 ^m	52 ^m	56 ^m	60 ^m
0 ⁿ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
2	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02
3	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03
4	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04
5	0.09	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05
6	0.11	0.10	0.10	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.06	0.06
7	0.12	0.12	0.11	0.11	0.11	0.10	0.10	0.10	0.09	0.09	0.09	0.08	0.08	0.08	0.07	0.07
8	0.14	0.14	0.13	0.13	0.12	0.12	0.11	0.11	0.11	0.10	0.10	0.09	0.09	0.09	0.08	0.08
9	0.16	0.15	0.15	0.14	0.14	0.13	0.13	0.12	0.12	0.12	0.11	0.11	0.10	0.10	0.10	0.09
10	0.18	0.17	0.16	0.16	0.15	0.15	0.14	0.14	0.13	0.13	0.12	0.12	0.11	0.11	0.11	0.10
11	0.19	0.19	0.18	0.18	0.17	0.16	0.16	0.15	0.15	0.14	0.14	0.13	0.13	0.12	0.12	0.11
12	0.21	0.21	0.20	0.19	0.18	0.18	0.17	0.17	0.16	0.15	0.15	0.14	0.14	0.13	0.13	0.12
13	0.23	0.22	0.22	0.21	0.20	0.19	0.19	0.18	0.17	0.17	0.16	0.16	0.15	0.14	0.14	0.13
14	0.25	0.24	0.23	0.22	0.22	0.21	0.20	0.19	0.19	0.18	0.17	0.17	0.16	0.16	0.15	0.14
15	0.27	0.26	0.25	0.24	0.23	0.22	0.22	0.21	0.20	0.19	0.19	0.18	0.17	0.17	0.16	0.15
16	0.29	0.28	0.27	0.26	0.25	0.24	0.23	0.22	0.22	0.21	0.20	0.19	0.19	0.18	0.17	0.17
17	0.31	0.30	0.29	0.28	0.27	0.26	0.25	0.24	0.23	0.22	0.21	0.21	0.20	0.19	0.18	0.18
18	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.25	0.24	0.24	0.23	0.22	0.21	0.20	0.20	0.19
19	0.34	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.25	0.24	0.23	0.22	0.22	0.21	0.20
20	0.36	0.35	0.34	0.33	0.32	0.31	0.29	0.28	0.27	0.26	0.25	0.25	0.24	0.23	0.22	0.21
21	0.38	0.37	0.36	0.35	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.25	0.24	0.23	0.22
22	0.40	0.39	0.38	0.36	0.35	0.34	0.33	0.32	0.30	0.29	0.28	0.27	0.26	0.25	0.24	0.23
23	0.42	0.41	0.40	0.38	0.37	0.36	0.34	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.25
24	0.45	0.43	0.42	0.40	0.39	0.37	0.36	0.35	0.34	0.32	0.31	0.30	0.29	0.28	0.27	0.26
25	0.47	0.45	0.43	0.42	0.41	0.39	0.38	0.36	0.35	0.34	0.33	0.31	0.30	0.29	0.28	0.27
26	0.49	0.47	0.45	0.44	0.42	0.41	0.39	0.38	0.37	0.35	0.34	0.33	0.32	0.30	0.29	0.28
27	0.51	0.49	0.48	0.46	0.44	0.43	0.41	0.40	0.38	0.37	0.36	0.34	0.33	0.32	0.31	0.29
28	0.53	0.51	0.50	0.48	0.46	0.45	0.43	0.42	0.40	0.39	0.37	0.36	0.35	0.33	0.32	0.31
29	0.55	0.54	0.52	0.50	0.48	0.47	0.45	0.43	0.42	0.40	0.39	0.37	0.36	0.35	0.33	0.32
30	0.58	0.56	0.54	0.52	0.50	0.48	0.47	0.45	0.44	0.42	0.40	0.39	0.37	0.36	0.35	0.33
31	0.60	0.58	0.56	0.54	0.52	0.50	0.49	0.47	0.45	0.44	0.42	0.41	0.39	0.38	0.36	0.35
32	0.62	0.60	0.58	0.56	0.54	0.52	0.51	0.49	0.47	0.45	0.44	0.42	0.41	0.39	0.38	0.36
33	0.65	0.63	0.61	0.58	0.56	0.54	0.53	0.51	0.49	0.47	0.45	0.44	0.42	0.41	0.39	0.37
34	0.67	0.65	0.63	0.61	0.59	0.57	0.55	0.53	0.51	0.49	0.47	0.45	0.44	0.42	0.41	0.39
35	0.70	0.68	0.65	0.63	0.61	0.59	0.57	0.55	0.53	0.51	0.49	0.47	0.45	0.44	0.42	0.40
36	0.73	0.70	0.68	0.65	0.63	0.61	0.59	0.57	0.55	0.53	0.51	0.49	0.47	0.45	0.44	0.42
37	0.75	0.73	0.70	0.68	0.66	0.63	0.61	0.59	0.57	0.55	0.53	0.51	0.49	0.47	0.45	0.44
38	0.78	0.75	0.73	0.70	0.68	0.66	0.63	0.61	0.59	0.57	0.55	0.53	0.51	0.49	0.47	0.45
39	0.81	0.78	0.76	0.73	0.70	0.68	0.66	0.63	0.61	0.59	0.57	0.55	0.53	0.51	0.49	0.47
40	0.84	0.81	0.78	0.76	0.73	0.70	0.68	0.66	0.63	0.61	0.59	0.57	0.54	0.52	0.50	0.48
41	0.87	0.84	0.81	0.78	0.76	0.73	0.70	0.68	0.66	0.63	0.61	0.59	0.56	0.54	0.52	0.50
42	0.90	0.87	0.84	0.81	0.78	0.76	0.73	0.70	0.68	0.65	0.63	0.61	0.58	0.56	0.54	0.52
43	0.93	0.90	0.87	0.84	0.81	0.78	0.76	0.73	0.70	0.68	0.65	0.63	0.61	0.58	0.56	0.54
44	0.97	0.93	0.90	0.87	0.84	0.81	0.78	0.75	0.73	0.70	0.68	0.65	0.63	0.60	0.58	0.56
45	1.00	0.97	0.93	0.90	0.87	0.84	0.81	0.78	0.75	0.73	0.70	0.67	0.65	0.62	0.60	0.58
46	1.04	1.00	0.97	0.93	0.90	0.87	0.84	0.81	0.78	0.75	0.73	0.70	0.67	0.65	0.62	0.60
47	1.07	1.04	1.00	0.97	0.93	0.90	0.87	0.84	0.81	0.78	0.75	0.72	0.70	0.67	0.64	0.62
48	1.11	1.07	1.04	1.00	0.97	0.93	0.90	0.87	0.84	0.81	0.78	0.75	0.72	0.69	0.67	0.64
49	1.15	1.11	1.07	1.04	1.00	0.97	0.93	0.90	0.87	0.84	0.81	0.78	0.75	0.72	0.69	0.66
50	1.19	1.15	1.11	1.07	1.04	1.00	0.97	0.93	0.90	0.87	0.83	0.80	0.77	0.74	0.72	0.69
51	1.23	1.19	1.15	1.11	1.07	1.04	1.00	0.96	0.93	0.90	0.86	0.83	0.80	0.77	0.74	0.71
52	1.28	1.24	1.19	1.15	1.11	1.07	1.04	1.00	0.96	0.93	0.90	0.86	0.83	0.80	0.77	0.74
53	1.33	1.28	1.24	1.19	1.15	1.11	1.07	1.04	1.00	0.96	0.93	0.90	0.86	0.83	0.80	0.77
54	1.38	1.33	1.28	1.24	1.20	1.15	1.11	1.08	1.04	1.00	0.96	0.93	0.89	0.86	0.83	0.79
55	1.43	1.38	1.33	1.29	1.24	1.20	1.16	1.12	1.08	1.04	1.00	0.96	0.93	0.89	0.86	0.82
56	1.48	1.43	1.38	1.33	1.29	1.24	1.20	1.16	1.12	1.08	1.04	1.00	0.96	0.93	0.89	0.86
57	1.54	1.49	1.44	1.39	1.34	1.29	1.25	1.20	1.16	1.12	1.08	1.04	1.00	0.96	0.93	0.89
58	1.60	1.55	1.49	1.44	1.39	1.34	1.30	1.25	1.21	1.16	1.12	1.08	1.04	1.00	0.96	0.92
59	1.66	1.61	1.55	1.50	1.45	1.40	1.35	1.30	1.25	1.21	1.17	1.12	1.08	1.04	1.00	0.96
60	1.73	1.67	1.62	1.56	1.51	1.45	1.40	1.35	1.31	1.26	1.21	1.17	1.12	1.08	1.04	1.00
l	60 ^m	56 ^m	52 ^m	48 ^m	44 ^m	40 ^m	36 ^m	32 ^m	28 ^m	24 ^m	20 ^m	16 ^m	12 ^m	8 ^m	4 ^m	0 ^m

δ	0 ^m	4 ^m	8 ^m	12 ^m	16 ^m	20 ^m	24 ^m	28 ^m	32 ^m	36 ^m	40 ^m	44 ^m	48 ^m	52 ^m	56 ^m	60 ^m
0 ^o	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
1	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02
2	0:05	0:05	0:05	0:05	0:05	0:05	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04
3	0:07	0:07	0:07	0:07	0:07	0:07	0:07	0:07	0:07	0:06	0:06	0:06	0:06	0:06	0:06	0:06
4	0:10	0:10	0:10	0:09	0:09	0:09	0:09	0:09	0:09	0:09	0:09	0:08	0:08	0:08	0:08	0:08
5	0:12	0:12	0:12	0:12	0:12	0:11	0:11	0:11	0:11	0:11	0:11	0:11	0:10	0:10	0:10	0:10
6	0:15	0:15	0:14	0:14	0:14	0:14	0:14	0:13	0:13	0:13	0:13	0:13	0:13	0:12	0:12	0:12
7	0:17	0:17	0:17	0:17	0:16	0:16	0:16	0:16	0:15	0:15	0:15	0:15	0:15	0:14	0:14	0:14
8	0:20	0:20	0:19	0:19	0:19	0:18	0:18	0:18	0:18	0:17	0:17	0:17	0:17	0:17	0:16	0:16
9	0:22	0:22	0:22	0:21	0:21	0:21	0:20	0:20	0:20	0:20	0:19	0:19	0:19	0:19	0:18	0:18
10	0:25	0:25	0:24	0:24	0:23	0:23	0:23	0:22	0:22	0:22	0:22	0:21	0:21	0:21	0:21	0:20
11	0:27	0:27	0:27	0:26	0:26	0:25	0:25	0:25	0:24	0:24	0:24	0:23	0:23	0:23	0:23	0:22
12	0:30	0:30	0:29	0:29	0:28	0:28	0:27	0:27	0:27	0:26	0:26	0:26	0:25	0:25	0:25	0:25
13	0:33	0:32	0:32	0:31	0:31	0:30	0:30	0:29	0:29	0:29	0:28	0:28	0:28	0:27	0:27	0:27
14	0:35	0:35	0:34	0:34	0:33	0:33	0:32	0:32	0:31	0:31	0:30	0:30	0:30	0:29	0:29	0:29
15	0:38	0:37	0:37	0:36	0:36	0:35	0:34	0:34	0:34	0:33	0:33	0:32	0:32	0:32	0:31	0:31
16	0:41	0:40	0:39	0:39	0:38	0:37	0:37	0:36	0:36	0:35	0:35	0:35	0:34	0:34	0:33	0:33
17	0:43	0:43	0:42	0:41	0:41	0:40	0:39	0:39	0:38	0:38	0:37	0:37	0:36	0:36	0:36	0:35
18	0:46	0:45	0:44	0:44	0:43	0:42	0:42	0:41	0:41	0:40	0:40	0:39	0:39	0:38	0:38	0:38
19	0:49	0:48	0:47	0:46	0:46	0:45	0:44	0:44	0:43	0:43	0:42	0:42	0:41	0:41	0:40	0:40
20	0:51	0:51	0:50	0:49	0:48	0:48	0:47	0:46	0:46	0:45	0:44	0:44	0:43	0:43	0:42	0:42
21	0:54	0:53	0:52	0:52	0:51	0:50	0:49	0:49	0:48	0:47	0:47	0:46	0:46	0:45	0:45	0:44
22	0:57	0:56	0:55	0:54	0:54	0:53	0:52	0:51	0:51	0:50	0:49	0:49	0:48	0:48	0:47	0:47
23	0:60	0:59	0:58	0:57	0:56	0:55	0:55	0:54	0:53	0:52	0:52	0:51	0:51	0:50	0:50	0:49
24	0:63	0:62	0:61	0:60	0:59	0:58	0:57	0:57	0:56	0:55	0:54	0:54	0:53	0:53	0:52	0:51
25	0:66	0:65	0:64	0:63	0:62	0:61	0:60	0:59	0:58	0:58	0:57	0:56	0:56	0:55	0:54	0:54
26	0:69	0:68	0:67	0:66	0:65	0:64	0:63	0:62	0:61	0:60	0:60	0:59	0:58	0:58	0:57	0:56
27	0:72	0:71	0:70	0:69	0:68	0:67	0:66	0:65	0:64	0:63	0:62	0:61	0:61	0:60	0:59	0:59
28	0:75	0:74	0:73	0:72	0:70	0:69	0:68	0:67	0:67	0:66	0:65	0:64	0:63	0:63	0:62	0:61
29	0:78	0:77	0:76	0:75	0:73	0:72	0:71	0:70	0:69	0:69	0:68	0:67	0:66	0:65	0:65	0:64
30	0:82	0:80	0:79	0:78	0:76	0:75	0:74	0:73	0:72	0:71	0:70	0:70	0:69	0:68	0:67	0:67
31	0:85	0:84	0:82	0:81	0:80	0:78	0:77	0:76	0:75	0:74	0:73	0:72	0:72	0:71	0:70	0:69
32	0:88	0:87	0:85	0:84	0:83	0:82	0:80	0:79	0:78	0:77	0:76	0:75	0:75	0:74	0:73	0:72
33	0:92	0:90	0:89	0:87	0:86	0:85	0:84	0:82	0:81	0:80	0:79	0:78	0:77	0:77	0:76	0:75
34	0:95	0:94	0:92	0:91	0:89	0:88	0:87	0:86	0:84	0:83	0:82	0:81	0:80	0:80	0:79	0:78
35	0:99	0:97	0:96	0:94	0:93	0:91	0:90	0:89	0:88	0:87	0:85	0:84	0:83	0:83	0:82	0:81
36	1:03	1:01	0:99	0:98	0:96	0:95	0:93	0:92	0:91	0:90	0:89	0:88	0:87	0:86	0:85	0:84
37	1:07	1:05	1:03	1:01	1:00	0:98	0:97	0:96	0:94	0:93	0:92	0:91	0:90	0:89	0:88	0:87
38	1:10	1:09	1:07	1:05	1:04	1:02	1:01	0:99	0:98	0:97	0:95	0:94	0:93	0:92	0:91	0:90
39	1:15	1:13	1:11	1:09	1:07	1:06	1:04	1:03	1:01	1:00	0:99	0:98	0:97	0:95	0:94	0:94
40	1:19	1:17	1:15	1:13	1:11	1:10	1:08	1:06	1:05	1:04	1:02	1:01	1:00	0:99	0:98	0:97
41	1:23	1:21	1:19	1:17	1:15	1:13	1:12	1:10	1:09	1:07	1:06	1:05	1:04	1:03	1:01	1:00
42	1:27	1:25	1:23	1:21	1:19	1:18	1:16	1:14	1:13	1:11	1:10	1:09	1:07	1:06	1:05	1:04
43	1:32	1:30	1:28	1:25	1:24	1:22	1:20	1:18	1:17	1:15	1:14	1:12	1:11	1:10	1:09	1:08
44	1:37	1:34	1:32	1:30	1:28	1:26	1:24	1:23	1:21	1:19	1:18	1:16	1:15	1:14	1:13	1:12
45	1:41	1:39	1:37	1:35	1:33	1:31	1:29	1:27	1:25	1:24	1:22	1:21	1:19	1:18	1:17	1:15
46	1:46	1:44	1:42	1:39	1:37	1:35	1:33	1:31	1:30	1:28	1:26	1:25	1:23	1:22	1:21	1:20
47	1:52	1:49	1:47	1:44	1:42	1:40	1:38	1:36	1:34	1:33	1:31	1:29	1:28	1:26	1:25	1:24
48	1:57	1:54	1:52	1:49	1:47	1:45	1:43	1:41	1:39	1:37	1:36	1:34	1:32	1:31	1:30	1:28
49	1:63	1:60	1:57	1:55	1:52	1:50	1:48	1:46	1:44	1:42	1:40	1:39	1:37	1:36	1:34	1:33
50	1:69	1:66	1:63	1:60	1:58	1:56	1:53	1:51	1:49	1:47	1:45	1:44	1:42	1:41	1:39	1:38
51	1:75	1:72	1:69	1:66	1:64	1:61	1:59	1:57	1:55	1:53	1:51	1:49	1:47	1:46	1:44	1:43
52	1:81	1:78	1:75	1:72	1:70	1:67	1:65	1:62	1:60	1:58	1:56	1:54	1:53	1:51	1:49	1:48
53	1:88	1:84	1:81	1:79	1:76	1:73	1:71	1:68	1:66	1:64	1:62	1:60	1:58	1:56	1:55	1:53
54	1:95	1:91	1:88	1:85	1:82	1:80	1:77	1:75	1:72	1:70	1:68	1:66	1:64	1:62	1:61	1:59
55	2:02	1:99	1:95	1:92	1:89	1:86	1:84	1:81	1:79	1:77	1:74	1:72	1:70	1:68	1:67	1:65
56	2:10	2:06	2:03	1:99	1:96	1:94	1:91	1:88	1:86	1:83	1:81	1:79	1:77	1:75	1:73	1:71
57	2:18	2:14	2:11	2:07	2:04	2:01	1:98	1:95	1:93	1:90	1:88	1:86	1:84	1:82	1:80	1:78
58	2:26	2:22	2:19	2:15	2:12	2:09	2:06	2:03	2:00	1:98	1:95	1:93	1:91	1:89	1:87	1:85
59	2:35	2:31	2:28	2:24	2:21	2:17	2:14	2:11	2:08	2:06	2:03	2:01	1:98	1:96	1:94	1:92
60	2:45	2:41	2:37	2:33	2:29	2:26	2:23	2:20	2:17	2:14	2:11	2:09	2:07	2:04	2:02	2:00
δ	60 ^m	56 ^m	52 ^m	48 ^m	44 ^m	40 ^m	36 ^m	32 ^m	28 ^m	24 ^m	20 ^m	16 ^m	12 ^m	8 ^m	4 ^m	0 ^m

I e d do mesmo nome: sinal +

I e d de nome contrario: " -

 $P=8^h$

I and d of same name: signal +

I « d of contrary " : " -

l	0 ^m	4 ^m	8 ^m	12 ^m	16 ^m	20 ^m	24 ^m	28 ^m	32 ^m	36 ^m	40 ^m	44 ^m	48 ^m	52 ^m	56 ^m	60 ^m
0 ^m	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
2	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
3	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01
4	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02
5	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.02
6	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03
7	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.03
8	0.08	0.08	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.04
9	0.09	0.09	0.08	0.08	0.08	0.07	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.04
10	0.10	0.10	0.09	0.09	0.09	0.08	0.08	0.07	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.05
11	0.11	0.11	0.10	0.10	0.09	0.09	0.09	0.08	0.08	0.07	0.07	0.07	0.06	0.06	0.06	0.05
12	0.12	0.12	0.11	0.11	0.10	0.10	0.09	0.09	0.09	0.08	0.08	0.07	0.07	0.06	0.06	0.06
13	0.13	0.13	0.12	0.12	0.11	0.11	0.10	0.10	0.09	0.09	0.08	0.08	0.08	0.07	0.07	0.06
14	0.14	0.14	0.13	0.13	0.12	0.12	0.11	0.11	0.10	0.10	0.09	0.09	0.08	0.08	0.07	0.07
15	0.15	0.15	0.14	0.14	0.13	0.12	0.12	0.11	0.11	0.10	0.10	0.09	0.09	0.08	0.08	0.07
16	0.17	0.16	0.15	0.15	0.14	0.13	0.13	0.12	0.12	0.11	0.10	0.10	0.09	0.09	0.08	0.08
17	0.18	0.17	0.16	0.16	0.15	0.14	0.14	0.13	0.12	0.12	0.11	0.11	0.10	0.09	0.09	0.08
18	0.19	0.18	0.17	0.17	0.16	0.15	0.14	0.14	0.13	0.12	0.12	0.11	0.11	0.10	0.09	0.09
19	0.20	0.19	0.18	0.18	0.17	0.16	0.15	0.15	0.14	0.13	0.13	0.12	0.11	0.11	0.10	0.09
20	0.21	0.20	0.19	0.19	0.18	0.17	0.16	0.15	0.15	0.14	0.13	0.13	0.12	0.11	0.10	0.10
21	0.22	0.21	0.20	0.20	0.19	0.18	0.17	0.16	0.16	0.15	0.14	0.13	0.12	0.12	0.11	0.10
22	0.23	0.22	0.21	0.21	0.20	0.19	0.18	0.17	0.16	0.16	0.15	0.14	0.13	0.12	0.12	0.11
23	0.25	0.24	0.23	0.22	0.21	0.20	0.19	0.18	0.17	0.16	0.15	0.15	0.14	0.13	0.12	0.11
24	0.26	0.25	0.24	0.23	0.22	0.21	0.20	0.19	0.18	0.17	0.16	0.15	0.14	0.14	0.13	0.12
25	0.27	0.26	0.25	0.24	0.23	0.22	0.21	0.20	0.19	0.18	0.17	0.16	0.15	0.14	0.13	0.12
26	0.28	0.27	0.26	0.25	0.24	0.23	0.22	0.21	0.20	0.19	0.18	0.17	0.16	0.15	0.14	0.13
27	0.29	0.28	0.27	0.26	0.25	0.24	0.23	0.22	0.21	0.20	0.19	0.18	0.17	0.16	0.15	0.14
28	0.31	0.29	0.28	0.27	0.26	0.25	0.24	0.23	0.21	0.20	0.19	0.18	0.17	0.16	0.15	0.14
29	0.32	0.31	0.29	0.28	0.27	0.26	0.25	0.24	0.22	0.21	0.20	0.19	0.18	0.17	0.16	0.15
30	0.33	0.32	0.31	0.29	0.28	0.27	0.26	0.25	0.23	0.22	0.21	0.20	0.19	0.18	0.17	0.15
31	0.35	0.33	0.32	0.31	0.29	0.28	0.27	0.26	0.24	0.23	0.22	0.21	0.20	0.18	0.17	0.16
32	0.36	0.35	0.33	0.32	0.30	0.29	0.28	0.27	0.25	0.24	0.23	0.22	0.20	0.19	0.18	0.17
33	0.37	0.36	0.35	0.33	0.32	0.30	0.29	0.28	0.26	0.25	0.24	0.22	0.21	0.20	0.19	0.17
34	0.39	0.37	0.36	0.34	0.33	0.31	0.30	0.29	0.27	0.26	0.25	0.23	0.22	0.21	0.19	0.18
35	0.40	0.39	0.37	0.36	0.34	0.33	0.31	0.30	0.28	0.27	0.25	0.24	0.23	0.21	0.20	0.19
36	0.42	0.40	0.39	0.37	0.35	0.34	0.32	0.31	0.29	0.28	0.26	0.25	0.24	0.22	0.21	0.19
37	0.44	0.42	0.40	0.38	0.37	0.35	0.34	0.32	0.30	0.29	0.27	0.26	0.24	0.23	0.22	0.20
38	0.45	0.43	0.42	0.40	0.38	0.36	0.35	0.33	0.32	0.30	0.28	0.27	0.25	0.24	0.22	0.21
39	0.47	0.45	0.43	0.41	0.39	0.38	0.36	0.34	0.33	0.31	0.29	0.28	0.26	0.25	0.23	0.22
40	0.48	0.47	0.45	0.43	0.41	0.39	0.37	0.36	0.34	0.32	0.31	0.29	0.27	0.26	0.24	0.22
41	0.50	0.48	0.46	0.44	0.42	0.41	0.39	0.37	0.35	0.33	0.32	0.30	0.28	0.27	0.25	0.23
42	0.52	0.50	0.48	0.46	0.44	0.42	0.40	0.38	0.36	0.35	0.33	0.31	0.29	0.28	0.26	0.24
43	0.54	0.52	0.50	0.48	0.45	0.43	0.42	0.40	0.38	0.36	0.34	0.32	0.30	0.29	0.27	0.25
44	0.56	0.54	0.51	0.49	0.47	0.45	0.43	0.41	0.39	0.37	0.35	0.33	0.31	0.30	0.28	0.26
45	0.58	0.55	0.53	0.51	0.49	0.47	0.45	0.42	0.40	0.38	0.36	0.34	0.32	0.31	0.29	0.27
46	0.60	0.57	0.55	0.53	0.51	0.48	0.46	0.44	0.42	0.40	0.38	0.36	0.34	0.32	0.30	0.28
47	0.62	0.59	0.57	0.55	0.52	0.50	0.48	0.46	0.43	0.41	0.39	0.37	0.35	0.33	0.31	0.29
48	0.64	0.62	0.59	0.57	0.54	0.52	0.49	0.47	0.45	0.43	0.40	0.38	0.36	0.34	0.32	0.30
49	0.66	0.64	0.61	0.59	0.56	0.54	0.51	0.49	0.46	0.44	0.42	0.40	0.37	0.35	0.33	0.31
50	0.69	0.66	0.63	0.61	0.58	0.56	0.53	0.51	0.48	0.46	0.43	0.41	0.39	0.36	0.34	0.32
51	0.71	0.68	0.66	0.63	0.60	0.58	0.55	0.52	0.50	0.47	0.45	0.43	0.40	0.38	0.35	0.33
52	0.74	0.71	0.68	0.65	0.62	0.60	0.57	0.54	0.52	0.49	0.47	0.44	0.42	0.39	0.37	0.34
53	0.77	0.74	0.71	0.68	0.65	0.62	0.59	0.56	0.54	0.51	0.48	0.46	0.43	0.41	0.38	0.36
54	0.79	0.76	0.73	0.70	0.67	0.64	0.61	0.58	0.56	0.53	0.50	0.47	0.45	0.42	0.39	0.37
55	0.82	0.79	0.76	0.73	0.70	0.67	0.64	0.61	0.58	0.55	0.52	0.49	0.46	0.44	0.41	0.38
56	0.86	0.82	0.79	0.76	0.72	0.69	0.66	0.63	0.60	0.57	0.54	0.51	0.48	0.45	0.43	0.40
57	0.89	0.85	0.82	0.78	0.75	0.72	0.69	0.65	0.62	0.59	0.56	0.53	0.50	0.47	0.44	0.41
58	0.92	0.89	0.85	0.82	0.78	0.75	0.71	0.68	0.65	0.61	0.58	0.55	0.52	0.49	0.46	0.43
59	0.96	0.92	0.88	0.85	0.81	0.78	0.74	0.71	0.67	0.64	0.61	0.57	0.54	0.51	0.48	0.45
60	1.00	0.96	0.92	0.88	0.84	0.81	0.77	0.74	0.70	0.66	0.63	0.60	0.56	0.53	0.50	0.46
l	60 ^m	56 ^m	52 ^m	48 ^m	44 ^m	40 ^m	36 ^m	32 ^m	28 ^m	24 ^m	20 ^m	16 ^m	12 ^m	8 ^m	4 ^m	0 ^m

δ	0 ^m	4 ^m	8 ^m	12 ^m	16 ^m	20 ^m	24 ^m	28 ^m	32 ^m	36 ^m	40 ^m	44 ^m	48 ^m	52 ^m	56 ^m	60 ^m
0 ^o	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
1	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02
2	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04
3	0:06	0:06	0:06	0:06	0:06	0:06	0:06	0:06	0:06	0:06	0:06	0:06	0:06	0:05	0:05	0:05
4	0:08	0:08	0:08	0:08	0:08	0:08	0:08	0:08	0:08	0:07	0:07	0:07	0:07	0:07	0:07	0:07
5	0:10	0:10	0:10	0:10	0:10	0:10	0:10	0:10	0:09	0:09	0:09	0:09	0:09	0:09	0:09	0:09
6	0:12	0:12	0:12	0:12	0:12	0:12	0:12	0:11	0:11	0:11	0:11	0:11	0:11	0:11	0:11	0:11
7	0:14	0:14	0:14	0:14	0:14	0:14	0:13	0:13	0:13	0:13	0:13	0:13	0:13	0:13	0:13	0:13
8	0:16	0:16	0:16	0:16	0:16	0:16	0:15	0:15	0:15	0:15	0:15	0:15	0:15	0:15	0:15	0:15
9	0:18	0:18	0:18	0:18	0:18	0:17	0:17	0:17	0:17	0:17	0:17	0:17	0:17	0:17	0:16	0:16
10	0:20	0:20	0:20	0:20	0:20	0:19	0:19	0:19	0:19	0:19	0:19	0:19	0:19	0:18	0:18	0:18
11	0:22	0:22	0:22	0:22	0:22	0:21	0:21	0:21	0:21	0:21	0:21	0:21	0:20	0:20	0:20	0:20
12	0:25	0:24	0:24	0:24	0:24	0:23	0:23	0:23	0:23	0:23	0:23	0:22	0:22	0:22	0:22	0:22
13	0:27	0:26	0:26	0:26	0:26	0:25	0:25	0:25	0:25	0:25	0:25	0:24	0:24	0:24	0:24	0:24
14	0:29	0:29	0:28	0:28	0:28	0:28	0:27	0:27	0:27	0:27	0:27	0:26	0:26	0:26	0:26	0:26
15	0:31	0:31	0:30	0:30	0:30	0:30	0:29	0:29	0:29	0:29	0:29	0:28	0:28	0:28	0:28	0:28
16	0:33	0:33	0:32	0:32	0:32	0:32	0:31	0:31	0:31	0:31	0:31	0:30	0:30	0:30	0:30	0:30
17	0:35	0:35	0:35	0:34	0:34	0:34	0:33	0:33	0:33	0:33	0:33	0:32	0:32	0:32	0:32	0:32
18	0:38	0:37	0:37	0:36	0:36	0:36	0:35	0:35	0:35	0:35	0:35	0:34	0:34	0:34	0:34	0:34
19	0:40	0:39	0:39	0:39	0:38	0:38	0:38	0:37	0:37	0:37	0:37	0:36	0:36	0:36	0:36	0:36
20	0:42	0:42	0:41	0:41	0:40	0:40	0:40	0:40	0:39	0:39	0:39	0:38	0:38	0:38	0:38	0:38
21	0:44	0:44	0:43	0:43	0:43	0:42	0:42	0:42	0:41	0:41	0:41	0:41	0:40	0:40	0:40	0:40
22	0:47	0:46	0:46	0:45	0:45	0:45	0:44	0:44	0:44	0:43	0:43	0:43	0:42	0:42	0:42	0:42
23	0:49	0:49	0:48	0:48	0:47	0:47	0:46	0:46	0:46	0:45	0:45	0:45	0:45	0:44	0:44	0:44
24	0:51	0:51	0:50	0:50	0:50	0:49	0:49	0:48	0:48	0:48	0:47	0:47	0:47	0:47	0:46	0:46
25	0:54	0:53	0:53	0:52	0:52	0:51	0:51	0:51	0:50	0:50	0:50	0:49	0:49	0:49	0:49	0:48
26	0:56	0:56	0:55	0:55	0:54	0:54	0:53	0:53	0:53	0:52	0:52	0:52	0:51	0:51	0:51	0:50
27	0:59	0:58	0:58	0:57	0:57	0:56	0:56	0:55	0:55	0:55	0:54	0:54	0:54	0:53	0:53	0:53
28	0:61	0:61	0:60	0:60	0:59	0:59	0:58	0:58	0:57	0:57	0:57	0:56	0:56	0:56	0:55	0:55
29	0:64	0:63	0:63	0:62	0:62	0:61	0:61	0:60	0:60	0:59	0:59	0:59	0:58	0:58	0:58	0:57
30	0:67	0:66	0:65	0:65	0:64	0:64	0:63	0:63	0:62	0:62	0:61	0:61	0:61	0:60	0:60	0:60
31	0:69	0:69	0:68	0:67	0:67	0:66	0:66	0:65	0:65	0:64	0:64	0:64	0:63	0:63	0:63	0:62
32	0:72	0:71	0:71	0:70	0:70	0:69	0:68	0:68	0:67	0:67	0:66	0:66	0:66	0:65	0:65	0:65
33	0:75	0:74	0:74	0:73	0:72	0:72	0:71	0:71	0:70	0:70	0:69	0:69	0:68	0:68	0:68	0:67
34	0:78	0:77	0:76	0:76	0:75	0:74	0:74	0:73	0:73	0:72	0:72	0:71	0:71	0:71	0:70	0:70
35	0:81	0:80	0:79	0:79	0:78	0:77	0:77	0:76	0:76	0:75	0:75	0:74	0:74	0:73	0:73	0:72
36	0:84	0:83	0:82	0:82	0:81	0:80	0:80	0:79	0:78	0:78	0:77	0:77	0:76	0:76	0:76	0:75
37	0:87	0:86	0:85	0:85	0:84	0:83	0:82	0:82	0:81	0:81	0:80	0:80	0:79	0:79	0:78	0:78
38	0:90	0:89	0:88	0:88	0:87	0:86	0:86	0:85	0:84	0:84	0:83	0:83	0:82	0:82	0:81	0:81
39	0:94	0:93	0:92	0:91	0:90	0:89	0:89	0:88	0:87	0:87	0:86	0:86	0:85	0:85	0:84	0:84
40	0:97	0:96	0:95	0:94	0:93	0:93	0:92	0:91	0:90	0:90	0:89	0:89	0:88	0:88	0:87	0:87
41	1:00	0:99	0:98	0:98	0:97	0:96	0:95	0:94	0:94	0:93	0:93	0:92	0:91	0:91	0:90	0:90
42	1:04	1:03	1:02	1:01	1:00	0:99	0:99	0:98	0:97	0:96	0:96	0:95	0:95	0:94	0:94	0:93
43	1:08	1:07	1:06	1:05	1:04	1:03	1:02	1:01	1:01	1:00	0:99	0:99	0:98	0:98	0:97	0:97
44	1:12	1:10	1:09	1:08	1:07	1:07	1:06	1:05	1:04	1:03	1:03	1:02	1:02	1:01	1:00	1:00
45	1:15	1:14	1:13	1:12	1:11	1:10	1:09	1:09	1:08	1:07	1:06	1:06	1:05	1:05	1:04	1:04
46	1:20	1:18	1:17	1:16	1:15	1:14	1:13	1:12	1:12	1:11	1:10	1:10	1:09	1:08	1:08	1:07
47	1:24	1:23	1:21	1:20	1:19	1:18	1:17	1:16	1:16	1:15	1:14	1:13	1:13	1:12	1:12	1:11
48	1:28	1:27	1:26	1:25	1:24	1:23	1:22	1:21	1:20	1:19	1:18	1:17	1:17	1:16	1:16	1:15
49	1:33	1:32	1:30	1:29	1:28	1:27	1:26	1:25	1:24	1:23	1:22	1:22	1:21	1:20	1:20	1:19
50	1:38	1:36	1:35	1:34	1:33	1:31	1:30	1:29	1:29	1:28	1:27	1:26	1:25	1:25	1:24	1:23
51	1:43	1:41	1:40	1:39	1:37	1:36	1:35	1:34	1:33	1:32	1:31	1:31	1:30	1:29	1:28	1:28
52	1:48	1:46	1:45	1:44	1:42	1:41	1:40	1:39	1:38	1:37	1:36	1:35	1:35	1:34	1:33	1:33
53	1:53	1:52	1:50	1:49	1:48	1:46	1:45	1:44	1:43	1:42	1:41	1:40	1:40	1:39	1:38	1:37
54	1:59	1:57	1:56	1:54	1:53	1:52	1:51	1:50	1:48	1:47	1:46	1:46	1:45	1:44	1:43	1:42
55	1:65	1:63	1:62	1:60	1:59	1:58	1:56	1:55	1:54	1:53	1:52	1:51	1:50	1:49	1:49	1:48
56	1:71	1:70	1:68	1:66	1:65	1:64	1:62	1:61	1:60	1:59	1:58	1:57	1:56	1:55	1:54	1:53
57	1:78	1:76	1:74	1:73	1:71	1:70	1:69	1:67	1:66	1:65	1:64	1:63	1:62	1:61	1:60	1:59
58	1:85	1:83	1:81	1:80	1:78	1:77	1:75	1:74	1:73	1:71	1:70	1:69	1:68	1:67	1:66	1:66
59	1:92	1:90	1:88	1:87	1:85	1:84	1:82	1:81	1:79	1:78	1:77	1:76	1:75	1:74	1:73	1:72
60	2:00	1:98	1:96	1:94	1:93	1:91	1:90	1:88	1:87	1:86	1:84	1:83	1:82	1:81	1:80	1:79
δ	60 ^m	56 ^m	52 ^m	48 ^m	44 ^m	40 ^m	36 ^m	32 ^m	28 ^m	24 ^m	20 ^m	16 ^m	12 ^m	8 ^m	4 ^m	0 ^m

l e d do mesmo nome: sinal +
l e d de nome contrario: " -

l and d of same name: signal +
l « d of contrary " : " -

<i>l</i>	0 ^m	4 ^m	8 ^m	12 ^m	16 ^m	20 ^m	24 ^m	28 ^m	32 ^m	36 ^m	40 ^m	44 ^m	48 ^m	52 ^m	56 ^m	60 ^m
0 ⁿ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
4	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
5	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
6	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
7	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.00	0.00
8	0.04	0.04	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.00	0.00
9	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.00
10	0.05	0.04	0.04	0.04	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.00
11	0.05	0.05	0.04	0.04	0.04	0.03	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.00
12	0.06	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.00
13	0.06	0.06	0.05	0.05	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.00
14	0.07	0.06	0.06	0.05	0.05	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.00
15	0.07	0.07	0.06	0.06	0.05	0.05	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.00
16	0.08	0.07	0.07	0.06	0.06	0.05	0.05	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.01
17	0.08	0.08	0.07	0.06	0.06	0.05	0.05	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.01
18	0.09	0.08	0.08	0.07	0.06	0.06	0.05	0.05	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.01
19	0.09	0.09	0.08	0.07	0.07	0.06	0.05	0.05	0.04	0.04	0.03	0.02	0.02	0.01	0.01	0.01
20	0.10	0.09	0.08	0.08	0.07	0.06	0.06	0.05	0.04	0.04	0.03	0.03	0.02	0.01	0.01	0.01
21	0.10	0.10	0.09	0.08	0.07	0.07	0.06	0.05	0.05	0.04	0.03	0.03	0.02	0.01	0.01	0.01
22	0.11	0.10	0.09	0.09	0.08	0.07	0.06	0.06	0.05	0.04	0.04	0.03	0.02	0.01	0.01	0.01
23	0.11	0.11	0.10	0.09	0.08	0.07	0.07	0.06	0.05	0.04	0.04	0.03	0.02	0.01	0.01	0.01
24	0.12	0.11	0.10	0.09	0.09	0.08	0.07	0.06	0.05	0.05	0.04	0.03	0.02	0.02	0.01	0.01
25	0.12	0.12	0.11	0.10	0.09	0.08	0.07	0.07	0.06	0.05	0.04	0.03	0.02	0.02	0.01	0.01
26	0.13	0.12	0.11	0.10	0.09	0.09	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.01	0.01
27	0.14	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.06	0.05	0.04	0.04	0.03	0.02	0.01	0.01
28	0.14	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.01
29	0.15	0.14	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.01
30	0.15	0.14	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.01
31	0.16	0.15	0.14	0.13	0.12	0.11	0.10	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.01
32	0.17	0.16	0.14	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.05	0.04	0.03	0.02	0.01	0.01
33	0.17	0.16	0.15	0.14	0.13	0.11	0.10	0.09	0.08	0.07	0.06	0.05	0.03	0.02	0.01	0.01
34	0.18	0.17	0.16	0.14	0.13	0.12	0.11	0.09	0.08	0.07	0.06	0.05	0.04	0.02	0.01	0.01
35	0.19	0.17	0.16	0.15	0.14	0.12	0.11	0.10	0.09	0.07	0.06	0.05	0.04	0.02	0.01	0.01
36	0.19	0.18	0.17	0.15	0.14	0.13	0.12	0.10	0.09	0.08	0.06	0.05	0.04	0.03	0.01	0.01
37	0.20	0.19	0.17	0.16	0.15	0.13	0.12	0.11	0.09	0.08	0.07	0.05	0.04	0.03	0.01	0.01
38	0.21	0.19	0.18	0.17	0.15	0.14	0.12	0.11	0.10	0.08	0.07	0.05	0.04	0.03	0.01	0.01
39	0.22	0.20	0.19	0.17	0.16	0.14	0.13	0.11	0.10	0.09	0.07	0.06	0.04	0.03	0.01	0.01
40	0.22	0.21	0.19	0.18	0.16	0.15	0.13	0.12	0.10	0.09	0.07	0.06	0.04	0.03	0.01	0.01
41	0.23	0.22	0.20	0.18	0.17	0.15	0.14	0.12	0.11	0.09	0.08	0.06	0.05	0.03	0.02	0.02
42	0.24	0.22	0.21	0.19	0.18	0.16	0.14	0.13	0.11	0.09	0.08	0.06	0.05	0.03	0.02	0.02
43	0.25	0.23	0.22	0.20	0.18	0.16	0.15	0.13	0.11	0.10	0.08	0.07	0.05	0.03	0.02	0.02
44	0.26	0.24	0.22	0.21	0.19	0.17	0.15	0.14	0.12	0.10	0.08	0.07	0.05	0.03	0.02	0.02
45	0.27	0.25	0.23	0.21	0.19	0.18	0.16	0.14	0.12	0.11	0.09	0.07	0.05	0.03	0.02	0.02
46	0.28	0.26	0.24	0.22	0.20	0.18	0.16	0.15	0.13	0.11	0.09	0.07	0.05	0.04	0.02	0.02
47	0.29	0.27	0.25	0.23	0.21	0.19	0.17	0.15	0.13	0.11	0.09	0.07	0.06	0.04	0.02	0.02
48	0.30	0.28	0.26	0.24	0.22	0.20	0.18	0.16	0.14	0.12	0.10	0.08	0.06	0.04	0.02	0.02
49	0.31	0.29	0.27	0.24	0.22	0.20	0.18	0.16	0.14	0.12	0.10	0.08	0.06	0.04	0.02	0.02
50	0.32	0.30	0.28	0.25	0.23	0.21	0.19	0.17	0.15	0.13	0.10	0.08	0.06	0.04	0.02	0.02
51	0.33	0.31	0.29	0.26	0.24	0.22	0.20	0.17	0.15	0.13	0.11	0.09	0.06	0.04	0.02	0.02
52	0.34	0.32	0.30	0.27	0.25	0.23	0.20	0.18	0.16	0.13	0.11	0.09	0.07	0.04	0.02	0.02
53	0.36	0.33	0.31	0.28	0.26	0.23	0.21	0.19	0.16	0.14	0.12	0.09	0.07	0.05	0.02	0.02
54	0.37	0.34	0.32	0.29	0.27	0.24	0.22	0.19	0.17	0.14	0.12	0.10	0.07	0.05	0.02	0.02
55	0.38	0.36	0.33	0.30	0.28	0.25	0.23	0.20	0.18	0.15	0.12	0.10	0.07	0.05	0.02	0.02
56	0.40	0.37	0.34	0.32	0.29	0.26	0.23	0.21	0.18	0.16	0.13	0.10	0.08	0.05	0.03	0.03
57	0.41	0.38	0.36	0.33	0.30	0.27	0.24	0.22	0.19	0.16	0.13	0.11	0.08	0.05	0.03	0.03
58	0.43	0.40	0.37	0.34	0.31	0.28	0.25	0.22	0.20	0.17	0.14	0.11	0.08	0.06	0.03	0.03
59	0.45	0.41	0.38	0.35	0.32	0.29	0.26	0.23	0.20	0.17	0.15	0.12	0.09	0.06	0.03	0.03
60	0.46	0.43	0.40	0.37	0.34	0.31	0.27	0.24	0.21	0.18	0.15	0.12	0.09	0.06	0.03	0.03
<i>l</i>	60 ^m	56 ^m	52 ^m	48 ^m	44 ^m	40 ^m	36 ^m	32 ^m	28 ^m	24 ^m	20 ^m	16 ^m	12 ^m	8 ^m	4 ^m	0 ^m

	0 ^m	4 ^m	8 ^m	12 ^m	16 ^m	20 ^m	24 ^m	28 ^m	32 ^m	36 ^m	40 ^m	44 ^m	48 ^m	52 ^m	56 ^m	60 ^m
0 ^o	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
1	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02	0:02
2	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:03	0:03	0:03
3	0:05	0:05	0:05	0:05	0:05	0:05	0:05	0:05	0:05	0:05	0:05	0:05	0:05	0:05	0:05	0:05
4	0:07	0:07	0:07	0:07	0:07	0:07	0:07	0:07	0:07	0:07	0:07	0:07	0:07	0:07	0:07	0:07
5	0:09	0:09	0:09	0:09	0:09	0:09	0:09	0:09	0:09	0:09	0:09	0:09	0:09	0:09	0:09	0:09
6	0:11	0:11	0:11	0:11	0:11	0:11	0:11	0:11	0:11	0:11	0:11	0:11	0:11	0:11	0:11	0:11
7	0:13	0:13	0:13	0:13	0:13	0:12	0:12	0:12	0:12	0:12	0:12	0:12	0:12	0:12	0:12	0:12
8	0:15	0:14	0:14	0:14	0:14	0:14	0:14	0:14	0:14	0:14	0:14	0:14	0:14	0:14	0:14	0:14
9	0:16	0:16	0:16	0:16	0:16	0:16	0:16	0:16	0:16	0:16	0:16	0:16	0:16	0:16	0:16	0:16
10	0:18	0:18	0:18	0:18	0:18	0:18	0:18	0:18	0:18	0:18	0:18	0:18	0:18	0:18	0:18	0:18
11	0:20	0:20	0:20	0:20	0:20	0:20	0:20	0:20	0:20	0:20	0:20	0:19	0:19	0:19	0:19	0:19
12	0:22	0:22	0:22	0:22	0:22	0:22	0:22	0:21	0:21	0:21	0:21	0:21	0:21	0:21	0:21	0:21
13	0:24	0:24	0:24	0:24	0:24	0:23	0:23	0:23	0:23	0:23	0:23	0:23	0:23	0:23	0:23	0:23
14	0:26	0:26	0:26	0:25	0:25	0:25	0:25	0:25	0:25	0:25	0:25	0:25	0:25	0:25	0:25	0:25
15	0:28	0:28	0:28	0:27	0:27	0:27	0:27	0:27	0:27	0:27	0:27	0:27	0:27	0:27	0:27	0:27
16	0:30	0:30	0:29	0:29	0:29	0:29	0:29	0:29	0:29	0:29	0:29	0:29	0:29	0:29	0:29	0:29
17	0:32	0:32	0:31	0:31	0:31	0:31	0:31	0:31	0:31	0:31	0:31	0:31	0:31	0:31	0:31	0:31
18	0:34	0:33	0:33	0:33	0:33	0:33	0:33	0:33	0:33	0:33	0:33	0:33	0:33	0:33	0:32	0:32
19	0:36	0:36	0:35	0:35	0:35	0:35	0:35	0:35	0:35	0:35	0:35	0:35	0:35	0:34	0:34	0:34
20	0:38	0:38	0:37	0:37	0:37	0:37	0:37	0:37	0:37	0:37	0:37	0:36	0:36	0:36	0:36	0:36
21	0:40	0:40	0:39	0:39	0:39	0:39	0:39	0:39	0:39	0:39	0:39	0:38	0:38	0:38	0:38	0:38
22	0:42	0:42	0:41	0:41	0:41	0:41	0:41	0:41	0:41	0:41	0:41	0:41	0:40	0:40	0:40	0:40
23	0:44	0:44	0:44	0:43	0:43	0:43	0:43	0:43	0:43	0:43	0:43	0:43	0:43	0:42	0:42	0:42
24	0:46	0:46	0:46	0:46	0:45	0:45	0:45	0:45	0:45	0:45	0:45	0:45	0:45	0:45	0:45	0:45
25	0:48	0:48	0:48	0:48	0:48	0:47	0:47	0:47	0:47	0:47	0:47	0:47	0:47	0:47	0:47	0:47
26	0:50	0:50	0:50	0:50	0:50	0:50	0:49	0:49	0:49	0:49	0:49	0:49	0:49	0:49	0:49	0:49
27	0:53	0:53	0:52	0:52	0:52	0:52	0:52	0:51	0:51	0:51	0:51	0:51	0:51	0:51	0:51	0:51
28	0:55	0:55	0:55	0:54	0:54	0:54	0:54	0:54	0:54	0:53	0:53	0:53	0:53	0:53	0:53	0:53
29	0:57	0:57	0:57	0:57	0:56	0:56	0:56	0:56	0:56	0:56	0:56	0:56	0:56	0:55	0:55	0:55
30	0:60	0:60	0:59	0:59	0:59	0:59	0:58	0:58	0:58	0:58	0:58	0:58	0:58	0:58	0:58	0:58
31	0:62	0:62	0:62	0:61	0:61	0:61	0:61	0:61	0:61	0:61	0:60	0:60	0:60	0:60	0:60	0:60
32	0:65	0:64	0:64	0:64	0:64	0:63	0:63	0:63	0:63	0:63	0:63	0:63	0:63	0:63	0:62	0:62
33	0:67	0:67	0:67	0:66	0:66	0:66	0:66	0:66	0:65	0:65	0:65	0:65	0:65	0:65	0:65	0:65
34	0:70	0:70	0:69	0:69	0:69	0:68	0:68	0:68	0:68	0:68	0:68	0:68	0:68	0:67	0:67	0:67
35	0:72	0:72	0:72	0:72	0:71	0:71	0:71	0:71	0:71	0:70	0:70	0:70	0:70	0:70	0:70	0:70
36	0:75	0:75	0:75	0:74	0:74	0:74	0:74	0:73	0:73	0:73	0:73	0:73	0:73	0:73	0:73	0:73
37	0:78	0:78	0:77	0:77	0:77	0:77	0:76	0:76	0:76	0:76	0:76	0:76	0:75	0:75	0:75	0:75
38	0:81	0:81	0:80	0:80	0:80	0:79	0:79	0:79	0:79	0:79	0:78	0:78	0:78	0:78	0:78	0:78
39	0:84	0:83	0:83	0:83	0:82	0:82	0:82	0:82	0:82	0:81	0:81	0:81	0:81	0:81	0:81	0:81
40	0:87	0:86	0:86	0:86	0:85	0:85	0:85	0:85	0:85	0:84	0:84	0:84	0:84	0:84	0:84	0:84
41	0:90	0:90	0:89	0:89	0:89	0:88	0:88	0:88	0:88	0:87	0:87	0:87	0:87	0:87	0:87	0:87
42	0:93	0:93	0:92	0:92	0:92	0:91	0:91	0:91	0:91	0:91	0:90	0:90	0:90	0:90	0:90	0:90
43	0:97	0:96	0:96	0:95	0:95	0:95	0:94	0:94	0:94	0:94	0:94	0:93	0:93	0:93	0:93	0:93
44	1:00	1:00	0:99	0:99	0:98	0:98	0:98	0:98	0:97	0:97	0:97	0:97	0:97	0:97	0:97	0:97
45	1:04	1:03	1:03	1:02	1:02	1:02	1:01	1:01	1:01	1:01	1:00	1:00	1:00	1:00	1:00	1:00
46	1:07	1:07	1:06	1:06	1:05	1:05	1:05	1:05	1:04	1:04	1:04	1:04	1:04	1:04	1:04	1:04
47	1:11	1:11	1:10	1:10	1:09	1:09	1:09	1:08	1:08	1:08	1:08	1:07	1:07	1:07	1:07	1:07
48	1:15	1:14	1:14	1:14	1:13	1:13	1:12	1:12	1:12	1:12	1:11	1:11	1:11	1:11	1:11	1:11
49	1:19	1:19	1:18	1:18	1:17	1:17	1:16	1:16	1:16	1:16	1:15	1:15	1:15	1:15	1:15	1:15
50	1:23	1:23	1:22	1:22	1:21	1:21	1:21	1:20	1:20	1:20	1:20	1:19	1:19	1:19	1:19	1:19
51	1:28	1:27	1:27	1:26	1:26	1:25	1:25	1:25	1:24	1:24	1:24	1:24	1:24	1:24	1:24	1:23
52	1:33	1:32	1:31	1:31	1:30	1:30	1:30	1:29	1:29	1:29	1:28	1:28	1:28	1:28	1:28	1:28
53	1:37	1:37	1:36	1:36	1:35	1:35	1:34	1:34	1:34	1:33	1:33	1:33	1:33	1:33	1:33	1:33
54	1:42	1:42	1:41	1:41	1:40	1:40	1:39	1:39	1:39	1:38	1:38	1:38	1:38	1:38	1:38	1:38
55	1:48	1:47	1:47	1:46	1:45	1:45	1:45	1:44	1:44	1:44	1:43	1:43	1:43	1:43	1:43	1:43
56	1:53	1:53	1:52	1:52	1:51	1:51	1:50	1:50	1:49	1:49	1:49	1:49	1:48	1:48	1:48	1:48
57	1:59	1:59	1:58	1:57	1:57	1:56	1:56	1:56	1:55	1:55	1:55	1:54	1:54	1:54	1:54	1:54
58	1:66	1:65	1:64	1:64	1:63	1:63	1:62	1:62	1:61	1:61	1:61	1:60	1:60	1:60	1:60	1:60
59	1:72	1:72	1:71	1:70	1:70	1:69	1:69	1:68	1:68	1:67	1:67	1:67	1:67	1:66	1:66	1:66
60	1:79	1:79	1:78	1:77	1:76	1:76	1:75	1:75	1:75	1:74	1:74	1:74	1:73	1:73	1:73	1:73
d	60 ^m	56 ^m	52 ^m	48 ^m	44 ^m	40 ^m	36 ^m	32 ^m	28 ^m	24 ^m	20 ^m	16 ^m	12 ^m	8 ^m	4 ^m	0 ^m

l e d do mesmo nome: sinal +
l e d de nome contrario: " -

P=6^h

l and d of same name: signal +
l " d of contrary " : " -

Taboa XIV

Table XIV

<i>l</i>	c 0.00	c 0.01	c 0.02	c 0.03	c 0.04	c 0.05	c 0.06	c 0.07	c 0.08	c 0.09	c 0.10	c 0.11	c 0.12	c 0.13	c 0.14	c 0.15
0°	90.0	89.4	88.9	88.3	87.7	87.1	86.6	86.0	85.4	84.9	84.3	83.7	83.2	82.6	82.0	81.5
10	90.0	89.4	88.9	88.3	87.7	87.2	86.6	86.1	85.5	84.9	84.4	83.8	83.3	82.7	82.1	81.6
15	90.0	89.4	88.9	88.3	87.8	87.2	86.7	86.1	85.6	85.0	84.5	83.9	83.4	82.9	82.3	81.8
20	90.0	89.5	88.9	88.4	87.8	87.3	86.8	86.2	85.7	85.2	84.6	84.1	83.6	83.0	82.5	82.0
24	90.0	89.5	89.0	88.4	87.9	87.4	86.9	86.3	85.8	85.3	84.8	84.3	83.7	83.2	82.7	82.2
28	90.0	89.5	89.0	88.5	88.0	87.5	87.0	86.5	86.0	85.5	85.0	84.5	84.0	83.5	83.0	82.5
30	90.0	89.5	89.0	88.5	88.0	87.5	87.0	86.5	86.0	85.5	85.1	84.6	84.1	83.6	83.1	82.6
32	90.0	89.5	89.0	88.5	88.1	87.6	87.1	86.6	86.1	85.6	85.2	84.7	84.2	83.7	83.2	82.8
34	90.0	89.5	89.1	88.6	88.1	87.6	87.2	86.7	86.2	85.7	85.3	84.8	84.3	83.8	83.4	82.9
36	90.0	89.5	89.1	88.6	88.1	87.7	87.2	86.8	86.3	85.8	85.4	84.9	84.5	84.0	83.5	83.1
38	90.0	89.5	89.1	88.6	88.2	87.7	87.3	86.8	86.4	85.9	85.5	85.0	84.6	84.2	83.7	83.3
40	90.0	89.6	89.1	88.7	88.2	87.8	87.4	86.9	86.5	86.1	85.6	85.2	84.7	84.3	83.9	83.4
42	90.0	89.6	89.1	88.7	88.3	87.9	87.4	87.0	86.6	86.2	85.7	85.3	84.9	84.5	84.1	83.6
43	90.0	89.6	89.2	88.7	88.3	87.9	87.5	87.1	86.7	86.2	85.8	85.4	85.0	84.6	84.2	83.7
44	90.0	89.6	89.2	88.8	88.4	87.9	87.5	87.1	86.7	86.3	85.9	85.5	85.1	84.7	84.2	83.8
45	90.0	89.6	89.2	88.8	88.4	88.0	87.6	87.2	86.8	86.4	86.0	85.6	85.1	84.7	84.3	83.9
46	90.0	89.6	89.2	88.8	88.4	88.0	87.6	87.2	86.8	86.4	86.0	85.6	85.2	84.8	84.4	84.1
47	90.0	89.6	89.2	88.8	88.4	88.0	87.7	87.3	86.9	86.5	86.1	85.7	85.3	84.9	84.5	84.2
48	90.0	89.6	89.2	88.9	88.5	88.1	87.7	87.3	86.9	86.6	86.2	85.8	85.4	85.0	84.6	84.3
49	90.0	89.6	89.2	88.9	88.5	88.1	87.7	87.4	87.0	86.6	86.2	85.9	85.5	85.1	84.8	84.4
50	90.0	89.6	89.3	88.9	88.5	88.2	87.8	87.4	87.1	86.7	86.3	86.0	85.6	85.2	84.9	84.5
51	90.0	89.6	89.3	88.9	88.6	88.2	87.8	87.5	87.1	86.8	86.4	86.0	85.7	85.3	85.0	84.6
52	90.0	89.6	89.3	88.9	88.6	88.2	87.9	87.5	87.2	86.8	86.5	86.1	85.8	85.4	85.1	84.7
53	90.0	89.7	89.3	89.0	88.6	88.3	87.9	87.6	87.2	86.9	86.6	86.2	85.9	85.5	85.2	84.8
54	90.0	89.7	89.3	89.0	88.7	88.3	88.0	87.6	87.3	87.0	86.6	86.3	86.0	85.6	85.3	85.0
55	90.0	89.7	89.3	89.0	88.7	88.4	88.0	87.7	87.4	87.0	86.7	86.4	86.1	85.7	85.4	85.1
56	90.0	89.7	89.4	89.0	88.7	88.4	88.1	87.8	87.4	87.1	86.8	86.5	86.2	85.8	85.5	85.2
57	90.0	89.7	89.4	89.1	88.8	88.4	88.1	87.8	87.5	87.2	86.9	86.6	86.3	86.0	85.6	85.3
58	90.0	89.7	89.4	89.1	88.8	88.5	88.2	87.9	87.6	87.3	87.0	86.7	86.4	86.1	85.8	85.5
59	90.0	89.7	89.4	89.1	88.8	88.5	88.2	87.9	87.6	87.3	87.1	86.8	86.5	86.2	85.9	85.6
60	90.0	89.7	89.4	89.1	88.9	88.6	88.3	88.0	87.7	87.4	87.1	86.9	86.6	86.3	86.0	85.7

<i>l</i>	c 0.16	c 0.17	c 0.18	c 0.19	c 0.20	c 0.21	c 0.22	c 0.23	c 0.24	c 0.25	c 0.26	c 0.27	c 0.28	c 0.29	c 0.30	c 0.31
0°	80.9	80.4	79.8	79.2	78.7	78.1	77.6	77.0	76.5	76.0	75.4	74.9	74.4	73.8	73.3	72.8
10	81.0	80.5	79.9	79.4	78.9	78.3	77.8	77.2	76.7	76.2	75.6	75.1	74.6	74.1	73.5	73.0
15	81.2	80.7	80.1	79.6	79.1	78.5	78.0	77.5	76.9	76.4	75.9	75.4	74.9	74.4	73.8	73.3
20	81.4	80.9	80.4	79.9	79.4	78.8	78.3	77.8	77.3	76.8	76.3	75.8	75.3	74.8	74.3	73.8
24	81.7	81.2	80.7	80.2	79.6	79.1	78.6	78.1	77.6	77.1	76.6	76.1	75.7	75.2	74.7	74.2
28	82.0	81.5	81.0	80.5	80.0	79.5	79.0	78.5	78.0	77.6	77.1	76.6	76.1	75.6	75.2	74.7
30	82.1	81.6	81.1	80.7	80.2	79.7	79.2	78.7	78.3	77.8	77.3	76.8	76.4	75.9	75.4	75.0
32	82.3	81.8	81.3	80.8	80.4	79.9	79.4	79.0	78.5	78.0	77.6	77.1	76.6	76.2	75.7	75.3
34	82.4	82.0	81.5	81.0	80.6	80.1	79.7	79.2	78.7	78.3	77.8	77.4	76.9	76.5	76.0	75.6
36	82.6	82.2	81.7	81.3	80.8	80.4	79.9	79.5	79.0	78.6	78.1	77.7	77.2	76.8	76.4	75.9
38	82.8	82.4	81.9	81.5	81.0	80.6	80.2	79.7	79.3	78.9	78.4	78.0	77.6	77.1	76.7	76.3
40	83.0	82.6	82.1	81.7	81.3	80.9	80.4	80.0	79.6	79.2	78.7	78.3	77.9	77.5	77.1	76.6
42	83.2	82.8	82.4	82.0	81.5	81.1	80.7	80.3	79.9	79.5	79.1	78.7	78.2	77.8	77.4	77.0
43	83.3	82.9	82.5	82.1	81.7	81.3	80.9	80.5	80.0	79.6	79.2	78.8	78.4	78.0	77.6	77.2
44	83.4	83.0	82.6	82.2	81.8	81.4	81.0	80.6	80.2	79.8	79.4	79.0	78.6	78.2	77.8	77.4
45	83.5	83.1	82.7	82.3	82.0	81.6	81.2	80.8	80.4	80.0	79.6	79.2	78.8	78.4	78.0	77.6
46	83.7	83.3	82.9	82.5	82.1	81.7	81.3	80.9	80.5	80.1	79.8	79.4	79.0	78.6	78.2	77.8
47	83.8	83.4	83.0	82.6	82.2	81.8	81.5	81.1	80.7	80.3	79.9	79.6	79.2	78.8	78.4	78.1
48	83.9	83.5	83.1	82.8	82.4	82.0	81.6	81.3	80.9	80.5	80.1	79.8	79.4	79.0	78.6	78.3
49	84.0	83.6	83.3	82.9	82.5	82.2	81.8	81.4	81.1	80.7	80.3	80.0	79.6	79.2	78.9	78.5
50	84.1	83.8	83.4	83.0	82.7	82.3	82.0	81.6	81.2	80.9	80.5	80.2	79.8	79.4	79.1	78.7
51	84.3	83.9	83.5	83.2	82.8	82.5	82.1	81.8	81.4	81.1	80.7	80.4	80.0	79.7	79.3	79.0
52	84.4	84.0	83.7	83.3	83.0	82.6	82.3	81.9	81.6	81.2	80.9	80.6	80.2	79.9	79.5	79.2
53	84.5	84.2	83.8	83.5	83.1	82.8	82.5	82.1	81.8	81.4	81.1	80.8	80.4	80.1	79.8	79.4
54	84.6	84.3	84.0	83.6	83.3	83.0	82.6	82.3	82.0	81.6	81.3	81.0	80.7	80.3	80.0	79.7
55	84.8	84.4	84.1	83.8	83.5	83.1	82.8	82.5	82.2	81.8	81.5	81.2	80.9	80.6	80.2	79.9
56	84.9	84.6	84.3	83.9	83.6	83.3	83.0	82.7	82.4	82.0	81.7	81.4	81.1	80.8	80.5	80.2
57	85.0	84.7	84.4	84.1	83.8	83.5	83.2	82.9	82.6	82.2	81.9	81.6	81.3	81.0	80.7	80.4
58	85.2	84.9	84.6	84.3	84.0	83.7	83.4	83.1	82.8	82.5	82.2	81.9	81.6	81.3	81.0	80.7
59	85.3	85.0	84.7	84.4	84.1	83.8	83.5	83.2	83.0	82.7	82.4	82.1	81.8	81.5	81.2	80.9
60	85.4	85.1	84.9	84.6	84.3	84.0	83.7	83.4	83.2	82.9	82.6	82.3	82.0	81.7	81.5	81.2

Taboa XIV

C

Table XIV

<i>l</i>	c 0.32	c 0.33	c 0.34	c 0.35	c 0.36	c 0.37	c 0.38	c 0.39	c 0.40	c 0.41	c 0.42	c 0.43	c 0.44	c 0.45	c 0.46	c 0.47
0°	72.3	71.7	71.2	70.7	70.2	69.7	69.2	68.7	68.2	67.7	67.2	66.7	66.3	65.8	65.3	64.8
10	72.5	72.0	71.5	71.0	70.5	70.0	69.5	69.0	68.5	68.0	67.5	67.0	66.6	66.1	65.6	65.2
15	72.8	72.3	71.8	71.3	70.8	70.3	69.8	69.4	68.9	68.4	67.9	67.4	67.0	66.5	66.0	65.6
20	73.3	72.8	72.3	71.8	71.3	70.8	70.3	69.9	69.4	68.9	68.5	68.0	67.5	67.1	66.6	66.2
24	73.7	73.2	72.7	72.3	71.8	71.3	70.9	70.4	69.9	69.5	69.0	68.6	68.1	67.7	67.2	66.8
28	74.2	73.8	73.3	72.8	72.4	71.9	71.5	71.0	70.5	70.1	69.7	69.2	68.8	68.3	67.9	67.5
30	74.5	74.1	73.6	73.1	72.7	72.2	71.8	71.3	70.9	70.5	70.0	69.6	69.1	68.7	68.3	67.9
32	74.8	74.4	73.9	73.5	73.0	72.6	72.1	71.7	71.3	70.8	70.4	70.0	69.5	69.1	68.7	68.3
34	75.1	74.7	74.3	73.8	73.4	72.9	72.5	72.1	71.7	71.2	70.8	70.4	70.0	69.5	69.1	68.7
36	75.5	75.1	74.6	74.2	73.8	73.3	72.9	72.5	72.1	71.6	71.2	70.8	70.4	70.0	69.6	69.2
38	75.8	75.4	75.0	74.6	74.2	73.7	73.3	72.9	72.5	72.1	71.7	71.3	70.9	70.5	70.1	69.7
40	76.2	75.8	75.4	75.0	74.6	74.2	73.8	73.4	73.0	72.6	72.2	71.8	71.4	71.0	70.6	70.2
42	76.6	76.2	75.8	75.4	75.0	74.6	74.2	73.8	73.4	73.1	72.7	72.3	71.9	71.5	71.1	70.7
43	76.8	76.4	76.0	75.6	75.2	74.9	74.5	74.1	73.7	73.3	72.9	72.5	72.2	71.8	71.4	71.0
44	77.0	76.6	76.3	75.9	75.5	75.1	74.7	74.3	73.9	73.6	73.2	72.8	72.4	72.1	71.7	71.3
45	77.3	76.9	76.5	76.1	75.7	75.3	75.0	74.6	74.2	73.8	73.5	73.1	72.7	72.3	72.0	71.6
46	77.5	77.1	76.7	76.3	76.0	75.6	75.2	74.8	74.5	74.1	73.7	73.4	73.0	72.6	72.3	71.9
47	77.7	77.3	76.9	76.6	76.2	75.8	75.5	75.1	74.7	74.4	74.0	73.7	73.3	72.9	72.6	72.2
48	77.9	77.5	77.2	76.8	76.5	76.1	75.7	75.4	75.0	74.7	74.3	73.9	73.6	73.2	72.9	72.5
49	78.1	77.8	77.4	77.1	76.7	76.4	76.0	75.6	75.3	74.9	74.6	74.2	73.9	73.6	73.2	72.9
50	78.4	78.0	77.7	77.3	77.0	76.6	76.3	75.9	75.6	75.2	74.9	74.5	74.2	73.9	73.5	73.2
51	78.6	78.3	77.9	77.6	77.2	76.9	76.6	76.2	75.9	75.5	75.2	74.9	74.5	74.2	73.9	73.5
52	78.9	78.5	78.2	77.8	77.5	77.2	76.8	76.5	76.2	75.8	75.5	75.2	74.8	74.5	74.2	73.9
53	79.1	78.8	78.4	78.1	77.8	77.4	77.1	76.8	76.5	76.1	75.8	75.5	75.2	74.8	74.5	74.2
54	79.3	79.0	78.7	78.4	78.1	77.7	77.4	77.1	76.8	76.5	76.1	75.8	75.5	75.2	74.9	74.6
55	79.6	79.3	79.0	78.6	78.3	78.0	77.7	77.4	77.1	76.8	76.5	76.1	75.8	75.5	75.2	74.9
56	79.9	79.5	79.2	78.9	78.6	78.3	78.0	77.7	77.4	77.1	76.8	76.5	76.2	75.9	75.6	75.3
57	80.1	79.8	79.5	79.2	78.9	78.6	78.3	78.0	77.7	77.4	77.1	76.8	76.5	76.2	75.9	75.6
58	80.4	80.1	79.8	79.5	79.2	78.9	78.6	78.3	78.0	77.7	77.5	77.2	76.9	76.6	76.3	76.0
59	80.6	80.4	80.1	79.8	79.5	79.2	78.9	78.6	78.4	78.1	77.8	77.5	77.2	77.0	76.7	76.4
60	80.9	80.6	80.4	80.1	79.8	79.5	79.2	79.0	78.7	78.4	78.1	77.9	77.6	77.3	77.0	76.8

<i>l</i>	c 0.48	c 0.49	c 0.50	c 0.51	c 0.52	c 0.53	c 0.54	c 0.55	c 0.56	c 0.57	c 0.58	c 0.59	c 0.60	c 0.61	c 0.62	c 0.63
0°	64.4	63.9	63.4	63.0	62.5	62.1	61.6	61.2	60.8	60.3	59.9	59.5	59.0	58.6	58.2	57.8
10	64.7	64.2	63.8	63.3	62.9	62.4	62.0	61.6	61.1	60.7	60.3	59.8	59.4	59.0	58.6	58.2
15	65.1	64.7	64.2	63.8	63.3	62.9	62.5	62.0	61.6	61.2	60.7	60.3	59.9	59.5	59.1	58.7
20	65.7	65.3	64.8	64.4	64.0	63.5	63.1	62.7	62.2	61.8	61.4	61.0	60.6	60.2	59.8	59.4
24	66.3	65.9	65.5	65.0	64.6	64.2	63.7	63.3	62.9	62.5	62.1	61.7	61.3	60.9	60.5	60.1
28	67.0	66.6	66.2	65.8	65.3	64.9	64.5	64.1	63.7	63.3	62.9	62.5	62.1	61.7	61.3	60.9
30	67.4	67.0	66.6	66.2	65.8	65.3	64.9	64.5	64.1	63.7	63.3	62.9	62.5	62.2	61.8	61.4
32	67.9	67.4	67.0	66.6	66.2	65.8	65.4	65.0	64.6	64.2	63.8	63.4	63.0	62.6	62.3	61.9
34	68.3	67.9	67.5	67.1	66.7	66.3	65.9	65.5	65.1	64.7	64.3	63.9	63.6	63.2	62.8	62.4
36	68.8	68.4	68.0	67.6	67.2	66.8	66.4	66.0	65.6	65.2	64.9	64.5	64.1	63.7	63.4	63.0
38	69.3	68.9	68.5	68.1	67.7	67.3	66.9	66.6	66.2	65.8	65.4	65.1	64.7	64.3	64.0	63.6
40	69.8	69.4	69.0	68.7	68.3	67.9	67.5	67.2	66.8	66.4	66.0	65.7	65.3	65.0	64.6	64.2
42	70.4	70.0	69.6	69.2	68.9	68.5	68.1	67.8	67.4	67.0	66.7	66.3	66.0	65.6	65.3	64.9
43	70.7	70.3	69.9	69.5	69.2	68.8	68.4	68.1	67.7	67.4	67.0	66.7	66.3	66.0	65.6	65.3
44	71.0	70.6	70.2	69.9	69.5	69.1	68.8	68.4	68.1	67.7	67.4	67.0	66.7	66.3	66.0	65.6
45	71.3	70.9	70.5	70.2	69.8	69.5	69.1	68.7	68.4	68.0	67.7	67.4	67.0	66.7	66.3	66.0
46	71.6	71.2	70.8	70.5	70.1	69.8	69.4	69.1	68.7	68.4	68.1	67.7	67.4	67.0	66.7	66.4
47	71.9	71.5	71.2	70.8	70.5	70.1	69.8	69.4	69.1	68.8	68.4	68.1	67.7	67.4	67.1	66.7
48	72.2	71.8	71.5	71.2	70.8	70.5	70.1	69.8	69.5	69.1	68.8	68.5	68.1	67.8	67.5	67.1
49	72.5	72.2	71.8	71.5	71.2	70.8	70.5	70.2	69.8	69.5	69.2	68.8	68.5	68.2	67.9	67.5
50	72.9	72.5	72.2	71.8	71.5	71.2	70.9	70.5	70.2	69.9	69.6	69.2	68.9	68.6	68.3	68.0
51	73.2	72.9	72.5	72.2	71.9	71.6	71.2	70.9	70.6	70.3	69.9	69.6	69.3	69.0	68.7	68.4
52	73.5	73.2	72.9	72.6	72.2	71.9	71.6	71.3	71.0	70.7	70.3	70.0	69.7	69.4	69.1	68.8
53	73.9	73.6	73.3	72.9	72.6	72.3	72.0	71.7	71.4	71.1	70.8	70.5	70.1	69.8	69.5	69.2
54	74.2	73.9	73.6	73.3	73.0	72.7	72.4	72.1	71.8	71.5	71.2	70.9	70.6	70.3	70.0	69.7
55	74.6	74.3	74.0	73.7	73.4	73.1	72.8	72.5	72.2	71.9	71.6	71.3	71.0	70.7	70.4	70.1
56	75.0	74.7	74.4	74.1	73.8	73.5	73.2	72.9	72.6	72.3	72.0	71.7	71.5	71.2	70.9	70.6
57	75.3	75.1	74.8	74.5	74.2	73.9	73.6	73.3	73.0	72.8	72.5	72.2	71.9	71.6	71.3	71.1
58	75.7	75.4	75.2	74.9	74.6	74.3	74.0	73.8	73.5	73.2	72.9	72.6	72.4	72.1	71.8	71.5
59	76.1	75.8	75.6	75.3	75.0	74.7	74.5	74.2	73.9	73.6	73.4	73.1	72.8	72.6	72.3	72.0
60	76.5	76.2	76.0	75.7	75.4	75.2	74.9	74.6	74.4	74.1	73.8	73.6	73.3	73.0	72.8	72.5

c positivo, Z do mesmo nome de l
c negativo, Z de contrario » » l

c positive, Z of same name as l
c negative, Z of contrary » of l

<i>l</i>	c 0.64	c 0.65	c 0.66	c 0.67	c 0.68	c 0.69	c 0.70	c 0.71	c 0.72	c 0.73	c 0.74	c 0.75	c 0.76	c 0.77	c 0.78	c 0.79
0°	57.4	57.0	56.6	56.2	55.8	55.4	55.0	54.6	54.2	53.9	53.5	53.1	52.8	52.4	52.0	51.7
10	57.8	57.4	57.0	56.6	56.2	55.8	55.4	55.0	54.6	54.3	53.9	53.5	53.2	52.8	52.5	52.1
15	58.3	57.9	57.5	57.1	56.7	56.3	55.9	55.6	55.2	54.8	54.4	54.1	53.7	53.4	53.0	52.7
20	59.0	58.6	58.2	57.8	57.4	57.0	56.7	56.3	55.9	55.6	55.2	54.8	54.5	54.1	53.8	53.4
24	59.7	59.3	58.9	58.5	58.2	57.8	57.4	57.0	56.7	56.3	55.9	55.6	55.2	54.9	54.5	54.2
28	60.5	60.1	59.8	59.4	59.0	58.6	58.3	57.9	57.6	57.2	56.8	56.5	56.1	55.8	55.4	55.1
30	61.0	60.6	60.2	59.9	59.5	59.1	58.8	58.4	58.1	57.7	57.3	57.0	56.6	56.3	56.0	55.6
32	61.5	61.1	60.8	60.4	60.0	59.7	59.3	58.9	58.6	58.2	57.9	57.5	57.2	56.9	56.5	56.2
34	62.1	61.7	61.3	60.9	60.6	60.2	59.9	59.5	59.2	58.8	58.5	58.1	57.8	57.4	57.1	56.8
36	62.6	62.3	61.9	61.5	61.2	60.8	60.5	60.1	59.8	59.4	59.1	58.8	58.4	58.1	57.7	57.4
38	63.2	62.9	62.5	62.2	61.8	61.5	61.1	60.8	60.4	60.1	59.8	59.4	59.1	58.8	58.4	58.1
40	63.9	63.5	63.2	62.8	62.5	62.1	61.8	61.5	61.1	60.8	60.5	60.1	59.8	59.5	59.1	58.8
42	64.6	64.2	63.9	63.5	63.2	62.9	62.5	62.2	61.9	61.5	61.2	60.9	60.5	60.2	59.9	59.6
43	64.9	64.6	64.2	63.9	63.6	63.2	62.9	62.6	62.2	61.9	61.6	61.3	60.9	60.6	60.3	60.0
44	65.3	64.9	64.6	64.3	63.9	63.6	63.3	62.9	62.6	62.3	62.0	61.7	61.3	61.0	60.7	60.4
45	65.7	65.3	65.0	64.7	64.3	64.0	63.7	63.3	63.0	62.7	62.4	62.1	61.7	61.4	61.1	60.8
46	66.0	65.7	65.4	65.0	64.7	64.4	64.1	63.7	63.4	63.1	62.8	62.5	62.2	61.9	61.5	61.2
47	66.4	66.1	65.8	65.4	65.1	64.8	64.5	64.2	63.8	63.5	63.2	62.9	62.6	62.3	62.0	61.7
48	66.8	66.5	66.2	65.9	65.5	65.2	64.9	64.6	64.3	64.0	63.7	63.4	63.0	62.7	62.4	62.1
49	67.2	66.9	66.6	66.3	66.0	65.6	65.3	65.0	64.7	64.4	64.1	63.8	63.5	63.2	62.9	62.6
50	67.6	67.3	67.0	66.7	66.4	66.1	65.8	65.5	65.2	64.9	64.6	64.3	64.0	63.7	63.4	63.1
51	68.1	67.8	67.4	67.1	66.8	66.5	66.2	65.9	65.6	65.3	65.0	64.7	64.4	64.1	63.9	63.6
52	68.5	68.2	67.9	67.6	67.3	67.0	66.7	66.4	66.1	65.8	65.5	65.2	64.9	64.6	64.4	64.1
53	68.9	68.6	68.3	68.0	67.7	67.4	67.2	66.9	66.6	66.3	66.0	65.7	65.4	65.1	64.9	64.6
54	69.4	69.1	68.8	68.5	68.2	67.9	67.6	67.3	67.1	66.8	66.5	66.2	65.9	65.6	65.4	65.1
55	69.8	69.6	69.3	69.0	68.7	68.4	68.1	67.8	67.6	67.3	67.0	66.7	66.4	66.2	65.9	65.6
56	70.3	70.0	69.7	69.5	69.2	68.9	68.6	68.3	68.1	67.8	67.5	67.2	67.0	66.7	66.4	66.2
57	70.8	70.5	70.2	70.0	69.7	69.4	69.1	68.9	68.6	68.3	68.0	67.8	67.5	67.2	67.0	66.7
58	71.3	71.0	70.7	70.5	70.2	69.9	69.6	69.4	69.1	68.9	68.6	68.3	68.1	67.8	67.5	67.3
59	71.8	71.5	71.2	71.0	70.7	70.4	70.2	69.9	69.7	69.4	69.1	68.9	68.6	68.4	68.1	67.9
60	72.3	72.0	71.7	71.5	71.2	71.0	70.7	70.5	70.2	69.9	69.7	69.4	69.2	68.9	68.7	68.4

<i>l</i>	c 0.80	c 0.81	c 0.82	c 0.83	c 0.84	c 0.85	c 0.86	c 0.87	c 0.88	c 0.89	c 0.90	c 0.91	c 0.92	c 0.93	c 0.94	c 0.95
0°	51.3	51.0	50.6	50.3	50.0	49.6	49.3	49.0	48.7	48.3	48.0	47.7	47.4	47.1	46.8	46.5
10	51.8	51.4	51.1	50.7	50.4	50.1	49.7	49.4	49.1	48.8	48.4	48.1	47.8	47.5	47.2	46.9
15	52.3	52.0	51.6	51.3	50.9	50.6	50.3	50.0	49.6	49.3	49.0	48.7	48.4	48.1	47.8	47.5
20	53.1	52.7	52.4	52.0	51.7	51.4	51.1	50.7	50.4	50.1	49.8	49.5	49.2	48.8	48.5	48.2
24	53.8	53.5	53.2	52.8	52.5	52.2	51.8	51.5	51.2	50.9	50.6	50.3	50.0	49.6	49.3	49.0
28	54.8	54.4	54.1	53.8	53.4	53.1	52.8	52.5	52.2	51.8	51.5	51.2	50.9	50.6	50.3	50.0
30	55.3	55.0	54.6	54.3	54.0	53.6	53.3	53.0	52.7	52.4	52.1	51.8	51.5	51.2	50.9	50.6
32	55.8	55.5	55.2	54.9	54.5	54.2	53.9	53.6	53.3	53.0	52.7	52.3	52.0	51.7	51.4	51.1
34	56.4	56.1	55.8	55.5	55.1	54.8	54.5	54.2	53.9	53.6	53.3	53.0	52.7	52.4	52.1	51.8
36	57.1	56.8	56.4	56.1	55.8	55.5	55.2	54.9	54.6	54.2	53.9	53.6	53.3	53.0	52.7	52.5
38	57.8	57.4	57.1	56.8	56.5	56.2	55.9	55.6	55.3	55.0	54.7	54.4	54.1	53.8	53.5	53.2
40	58.5	58.2	57.9	57.6	57.2	56.9	56.6	56.3	56.0	55.7	55.4	55.1	54.8	54.5	54.2	54.0
42	59.3	59.0	58.6	58.3	58.0	57.7	57.4	57.1	56.8	56.5	56.2	55.9	55.6	55.4	55.1	54.8
43	59.7	59.4	59.0	58.7	58.4	58.1	57.8	57.5	57.2	56.9	56.6	56.4	56.1	55.8	55.5	55.2
44	60.1	59.8	59.5	59.2	58.9	58.6	58.3	58.0	57.7	57.4	57.1	56.8	56.5	56.2	55.9	55.7
45	60.5	60.2	59.9	59.6	59.3	59.0	58.7	58.4	58.1	57.8	57.5	57.2	57.0	56.7	56.4	56.1
46	60.9	60.6	60.3	60.0	59.7	59.4	59.1	58.9	58.6	58.3	58.0	57.7	57.4	57.1	56.9	56.6
47	61.4	61.1	60.8	60.5	60.2	59.9	59.6	59.3	59.0	58.7	58.5	58.2	57.9	57.6	57.3	57.1
48	61.8	61.5	61.2	61.0	60.7	60.4	60.1	59.8	59.5	59.2	58.9	58.7	58.4	58.1	57.8	57.6
49	62.3	62.0	61.7	61.4	61.1	60.9	60.6	60.3	60.0	59.7	59.4	59.2	58.9	58.6	58.3	58.1
50	62.8	62.5	62.2	61.9	61.6	61.4	61.1	60.8	60.5	60.2	60.0	59.7	59.4	59.1	58.9	58.6
51	63.3	63.0	62.7	62.4	62.1	61.9	61.6	61.3	61.0	60.7	60.5	60.2	59.9	59.7	59.4	59.1
52	63.8	63.5	63.2	62.9	62.7	62.4	62.1	61.8	61.6	61.3	61.0	60.7	60.5	60.2	59.9	59.7
53	64.3	64.0	63.7	63.5	63.2	62.9	62.6	62.4	62.1	61.8	61.6	61.3	61.0	60.8	60.5	60.2
54	64.8	64.5	64.3	64.0	63.7	63.5	63.2	62.9	62.6	62.4	62.1	61.9	61.6	61.3	61.1	60.8
55	65.4	65.1	64.8	64.5	64.3	64.0	63.7	63.5	63.2	63.0	62.7	62.4	62.2	61.9	61.7	61.4
56	65.9	65.6	65.4	65.1	64.9	64.6	64.3	64.1	63.8	63.5	63.3	63.0	62.8	62.5	62.3	62.0
57	66.5	66.2	65.9	65.7	65.4	65.2	64.9	64.6	64.4	64.1	63.9	63.6	63.4	63.1	62.9	62.6
58	67.0	66.8	66.5	66.3	66.0	65.8	65.5	65.2	65.0	64.8	64.5	64.3	64.0	63.8	63.5	63.3
59	67.6	67.4	67.1	66.9	66.6	66.4	66.1	65.9	65.6	65.4	65.1	64.9	64.6	64.4	64.2	63.9
60	68.2	68.0	67.7	67.5	67.2	67.0	66.7	66.5	66.3	66.0	65.8	65.5	65.3	65.1	64.8	64.6

<i>l</i>	c 0.96	c 0.97	c 0.98	c 0.99	c 1.00	c 1.02	c 1.04	c 1.06	c 1.08	c 1.10	c 1.12	c 1.14	c 1.16	c 1.18	c 1.20	c 1.22
0°	46.2	45.9	45.6	45.3	45.0	44.4	43.9	43.3	42.8	42.3	41.8	41.3	40.8	40.3	39.8	39.3
10	46.6	46.3	46.0	45.7	45.4	44.9	44.3	43.8	43.2	42.7	42.2	41.7	41.2	40.7	40.2	39.8
15	47.2	46.9	46.6	46.3	46.0	45.4	44.8	44.3	43.8	43.2	42.8	42.2	41.8	41.3	40.8	40.3
20	47.9	47.7	47.4	47.1	46.8	46.2	45.7	45.1	44.6	44.1	43.5	43.0	42.5	42.0	41.6	41.1
24	48.7	48.5	48.2	47.9	47.6	47.0	46.5	45.9	45.4	44.9	44.3	43.8	43.3	42.9	42.4	41.9
28	49.7	49.4	49.1	48.8	48.6	48.0	47.4	46.9	46.4	45.8	45.3	44.8	44.3	43.8	43.3	42.9
30	50.3	50.0	49.7	49.4	49.1	48.5	48.0	47.4	46.9	46.4	45.9	45.4	44.9	44.4	43.9	43.4
32	50.9	50.6	50.3	50.0	49.7	49.1	48.6	48.0	47.5	47.0	46.5	46.0	45.5	45.0	44.5	44.0
34	51.5	51.2	50.9	50.6	50.3	49.8	49.2	48.7	48.2	47.6	47.1	46.6	46.1	45.6	45.1	44.7
36	52.2	51.9	51.6	51.3	51.0	50.5	49.9	49.4	48.9	48.3	47.8	47.3	46.8	46.3	45.8	45.4
38	52.9	52.6	52.3	52.0	51.8	51.2	50.7	50.1	49.6	49.1	48.6	48.1	47.6	47.1	46.6	46.1
40	53.7	53.4	53.1	52.8	52.5	52.0	51.5	50.9	50.4	49.9	49.4	48.9	48.4	47.9	47.4	46.9
42	54.5	54.2	53.9	53.7	53.4	52.8	52.3	51.8	51.2	50.7	50.2	49.7	49.2	48.8	48.3	47.8
43	54.9	54.6	54.4	54.1	53.8	53.3	52.7	52.2	51.7	51.2	50.7	50.2	49.7	49.2	48.7	48.3
44	55.4	55.1	54.8	54.5	54.3	53.7	53.2	52.7	52.2	51.6	51.1	50.6	50.2	49.7	49.2	48.7
45	55.8	55.6	55.3	55.0	54.7	54.2	53.7	53.1	52.6	52.1	51.6	51.1	50.6	50.2	49.7	49.2
46	56.3	56.0	55.8	55.5	55.2	54.7	54.2	53.6	53.1	52.6	52.1	51.6	51.1	50.7	50.2	49.7
47	56.8	56.5	56.2	56.0	55.7	55.2	54.7	54.1	53.6	53.1	52.6	52.1	51.7	51.2	50.7	50.2
48	57.3	57.0	56.7	56.5	56.2	55.7	55.2	54.7	54.1	53.6	53.2	52.7	52.2	51.7	51.2	50.8
49	57.8	57.5	57.3	57.0	56.7	56.2	55.7	55.2	54.7	54.2	53.7	53.2	52.7	52.3	51.8	51.3
50	58.3	58.1	57.8	57.5	57.3	56.7	56.2	55.7	55.2	54.7	54.2	53.8	53.3	52.8	52.4	51.9
51	58.9	58.6	58.3	58.1	57.8	57.3	56.8	56.3	55.8	55.3	54.8	54.3	53.9	53.4	52.9	52.5
52	59.4	59.2	58.9	58.6	58.4	57.9	57.4	56.9	56.4	55.9	55.4	54.9	54.5	54.0	53.5	53.1
53	60.0	59.7	59.5	59.2	59.0	58.5	58.0	57.5	57.0	56.5	56.0	55.5	55.1	54.6	54.2	53.7
54	60.6	60.3	60.1	59.8	59.6	59.1	58.6	58.1	57.6	57.1	56.6	56.2	55.7	55.3	54.8	54.4
55	61.2	60.9	60.7	60.4	60.2	59.7	59.2	58.7	58.2	57.8	57.3	56.8	56.4	55.9	55.5	55.0
56	61.8	61.5	61.3	61.0	60.8	60.3	59.8	59.3	58.9	58.4	57.9	57.5	57.0	56.6	56.1	55.7
57	62.4	62.2	61.9	61.7	61.4	60.9	60.5	60.0	59.5	59.1	58.6	58.2	57.7	57.3	56.8	56.4
58	63.0	62.8	62.6	62.3	62.1	61.6	61.1	60.7	60.2	59.8	59.3	58.9	58.4	58.0	57.5	57.1
59	63.7	63.5	63.2	63.0	62.7	62.3	61.8	61.4	60.9	60.5	60.0	59.6	59.1	58.7	58.3	57.9
60	64.4	64.1	63.9	63.7	63.4	63.0	62.5	62.1	61.6	61.2	60.8	60.3	59.9	59.5	59.0	58.6

<i>l</i>	c 1.22	c 1.24	c 1.26	c 1.28	c 1.30	c 1.32	c 1.34	c 1.36	c 1.38	c 1.40	c 1.42	c 1.44	c 1.46	c 1.48	c 1.50	c 1.52
0°	39.3	38.9	38.4	38.0	37.6	37.1	36.7	36.3	35.9	35.5	35.2	34.8	34.4	34.0	33.7	33.3
10	39.8	39.3	38.9	38.4	38.0	37.6	37.1	36.7	36.3	35.9	35.6	35.2	34.8	34.4	34.1	33.7
15	40.3	39.9	39.4	39.0	38.5	38.1	37.7	37.3	36.9	36.5	36.1	35.7	35.3	35.0	34.6	34.3
20	41.1	40.6	40.2	39.7	39.3	38.9	38.5	38.0	37.6	37.2	36.8	36.5	36.1	35.7	35.4	35.0
24	41.9	41.4	41.0	40.5	40.1	39.7	39.2	38.8	38.4	38.0	37.6	37.2	36.9	36.5	36.1	35.8
28	42.9	42.4	42.0	41.5	41.1	40.6	40.2	39.8	39.4	39.0	38.6	38.2	37.8	37.4	37.1	36.7
30	43.4	43.0	42.5	42.1	41.6	41.2	40.8	40.3	39.9	39.5	39.1	38.7	38.3	38.0	37.6	37.2
32	44.0	43.6	43.1	42.7	42.2	41.8	41.3	40.9	40.5	40.1	39.7	39.3	38.9	38.5	38.2	37.8
34	44.7	44.2	43.8	43.3	42.9	42.4	42.0	41.6	41.2	40.7	40.3	39.9	39.6	39.2	38.8	38.4
36	45.4	44.9	44.5	44.0	43.6	43.1	42.7	42.3	41.9	41.4	41.0	40.6	40.3	39.9	39.5	39.1
38	46.1	45.7	45.2	44.8	44.3	43.9	43.4	43.0	42.6	42.2	41.8	41.4	41.0	40.6	40.2	39.9
40	46.9	46.5	46.0	45.6	45.1	44.7	44.3	43.8	43.4	43.0	42.6	42.2	41.8	41.4	41.0	40.7
42	47.8	47.3	46.9	46.4	46.0	45.6	45.1	44.7	44.3	43.9	43.5	43.1	42.7	42.3	41.9	41.5
43	48.3	47.8	47.3	46.9	46.4	46.0	45.6	45.2	44.7	44.3	43.9	43.5	43.1	42.7	42.4	42.0
44	48.7	48.3	47.8	47.4	46.9	46.5	46.1	45.6	45.2	44.8	44.4	44.0	43.6	43.2	42.8	42.4
45	49.2	48.8	48.3	47.9	47.4	47.0	46.6	46.1	45.7	45.3	44.9	44.5	44.1	43.7	43.3	42.9
46	49.7	49.3	48.8	48.4	47.9	47.5	47.1	46.6	46.2	45.8	45.4	45.0	44.6	44.2	43.8	43.4
47	50.2	49.8	49.3	48.9	48.4	48.0	47.6	47.2	46.7	46.3	45.9	45.5	45.1	44.7	44.3	44.0
48	50.8	50.3	49.9	49.4	49.0	48.5	48.1	47.7	47.3	46.9	46.5	46.1	45.7	45.3	44.9	44.5
49	51.3	50.9	50.4	50.0	49.5	49.1	48.7	48.3	47.8	47.4	47.0	46.6	46.2	45.8	45.5	45.1
50	51.9	51.4	51.0	50.6	50.1	49.7	49.3	48.8	48.4	48.0	47.6	47.2	46.8	46.4	46.1	45.7
51	52.5	52.0	51.6	51.2	50.7	50.3	49.9	49.4	49.0	48.6	48.2	47.8	47.4	47.0	46.7	46.3
52	53.1	52.6	52.2	51.8	51.3	50.9	50.5	50.1	49.6	49.2	48.8	48.4	48.0	47.7	47.3	46.9
53	53.7	53.3	52.8	52.4	52.0	51.5	51.1	50.7	50.3	49.9	49.5	49.1	48.7	48.3	47.9	47.5
54	54.4	53.9	53.5	53.0	52.6	52.2	51.8	51.4	51.0	50.5	50.1	49.8	49.4	49.0	48.6	48.2
55	55.0	54.6	54.1	53.7	53.3	52.9	52.5	52.0	51.6	51.2	50.8	50.5	50.1	49.7	49.3	48.9
56	55.7	55.3	54.8	54.4	54.0	53.6	53.2	52.7	52.3	51.9	51.5	51.2	50.8	50.4	50.0	49.6
57	56.4	56.0	55.5	55.1	54.7	54.3	53.9	53.5	53.1	52.7	52.3	51.9	51.5	51.1	50.8	50.4
58	57.1	56.7	56.3	55.9	55.4	55.0	54.6	54.2	53.8	53.4	53.0	52.7	52.3	51.9	51.5	51.1
59	57.9	57.4	57.0	56.6	56.2	55.8	55.4	55.0	54.6	54.2	53.8	53.4	53.1	52.7	52.3	51.9
60	58.6	58.2	57.8	57.4	57.0	56.6	56.2	55.8	55.4	55.0	54.6	54.2	53.9	53.5	53.1	52.8

c positivo, Z do mesmo nome de l
c negativo, Z do contrario » » l

c positive, Z of same name as l
c negative, Z of contrary » of l

Taboa XIV

C

Table XIV

<i>l</i>	^c 1.52	^c 1.54	^c 1.56	^c 1.58	^c 1.60	^c 1.62	^c 1.64	^c 1.66	^c 1.68	^c 1.70	^c 1.72	^c 1.74	^c 1.76	^c 1.78	^c 1.80	^c 1.82
0°	33.3	33.0	32.7	32.3	32.0	31.7	31.4	31.1	30.8	30.5	30.2	29.9	29.6	29.3	29.1	28.8
10	33.7	33.4	33.1	32.7	32.4	32.1	31.8	31.5	31.1	30.9	30.6	30.3	30.0	29.7	29.4	29.2
15	34.3	33.9	33.6	33.2	32.9	32.6	32.3	31.9	31.6	31.3	31.0	30.7	30.5	30.2	29.9	29.6
20	35.0	34.6	34.3	34.0	33.6	33.3	33.0	32.7	32.4	32.0	31.7	31.4	31.2	30.9	30.6	30.3
24	35.8	35.4	35.1	34.7	34.4	34.0	33.7	33.4	33.1	32.8	32.5	32.2	31.9	31.6	31.3	31.0
28	36.7	36.3	36.0	35.6	35.3	35.0	34.6	34.3	34.0	33.7	33.4	33.1	32.8	32.5	32.2	31.9
30	37.2	36.9	36.5	36.2	35.8	35.5	35.1	34.8	34.5	34.2	33.9	33.6	33.3	33.0	32.7	32.4
32	37.8	37.4	37.1	36.7	36.4	36.1	35.7	35.4	35.1	34.7	34.4	34.1	33.8	33.5	33.2	32.9
34	38.4	38.1	37.7	37.4	37.0	36.7	36.3	36.0	35.7	35.4	35.0	34.7	34.4	34.1	33.8	33.5
36	39.1	38.8	38.4	38.0	37.7	37.3	37.0	36.7	36.3	36.0	35.7	35.4	35.1	34.8	34.5	34.2
38	39.9	39.5	39.1	38.8	38.4	38.1	37.7	37.4	37.1	36.7	36.4	36.1	35.8	35.5	35.2	34.9
40	40.7	40.3	39.9	39.6	39.2	38.9	38.5	38.2	37.8	37.5	37.2	36.9	36.6	36.3	36.0	35.7
42	41.5	41.1	40.8	40.4	40.1	39.7	39.4	39.0	38.7	38.4	38.0	37.7	37.4	37.1	36.8	36.5
43	42.0	41.6	41.2	40.9	40.5	40.2	39.8	39.5	39.1	38.8	38.5	38.2	37.8	37.5	37.2	36.9
44	42.4	42.1	41.7	41.3	41.0	40.6	40.3	39.9	39.6	39.3	38.9	38.6	38.3	38.0	37.7	37.4
45	42.9	42.6	42.2	41.8	41.5	41.1	40.8	40.4	40.1	39.8	39.4	39.1	38.8	38.5	38.2	37.8
46	43.4	43.1	42.7	42.3	42.0	41.6	41.3	40.9	40.6	40.3	39.9	39.6	39.3	39.0	38.7	38.3
47	44.0	43.6	43.2	42.9	42.5	42.1	41.8	41.5	41.1	40.8	40.4	40.1	39.8	39.5	39.2	38.9
48	44.5	44.1	43.8	43.4	43.0	42.7	42.3	42.0	41.7	41.3	41.0	40.7	40.3	40.0	39.7	39.4
49	45.1	44.7	44.3	44.0	43.6	43.3	42.9	42.6	42.2	41.9	41.5	41.2	40.9	40.6	40.3	39.9
50	45.7	45.3	44.9	44.6	44.2	43.8	43.5	43.1	42.8	42.5	42.1	41.8	41.5	41.2	40.8	40.5
51	46.3	45.9	45.5	45.2	44.8	44.4	44.1	43.7	43.4	43.1	42.7	42.4	42.1	41.8	41.4	41.1
52	46.9	46.5	46.2	45.8	45.4	45.1	44.7	44.4	44.0	43.7	43.4	43.0	42.7	42.4	42.1	41.7
53	47.5	47.2	46.8	46.4	46.1	45.7	45.4	45.0	44.7	44.3	44.0	43.7	43.4	43.0	42.7	42.4
54	48.2	47.8	47.5	47.1	46.8	46.4	46.1	45.7	45.4	45.0	44.7	44.4	44.0	43.7	43.4	43.1
55	48.9	48.5	48.2	47.8	47.5	47.1	46.8	46.4	46.1	45.7	45.4	45.1	44.7	44.4	44.1	43.8
56	49.6	49.3	48.9	48.5	48.2	47.8	47.5	47.1	46.8	46.4	46.1	45.8	45.5	45.1	44.8	44.5
57	50.4	50.0	49.6	49.3	48.9	48.6	48.2	47.9	47.5	47.2	46.9	46.5	46.2	45.9	45.6	45.2
58	51.1	50.8	50.4	50.1	49.7	49.4	49.0	48.7	48.3	48.0	47.7	47.3	47.0	46.7	46.4	46.0
59	51.9	51.6	51.2	50.9	50.5	50.2	49.8	49.5	49.1	48.8	48.5	48.1	47.8	47.5	47.2	46.9
60	52.8	52.4	52.0	51.7	51.3	51.0	50.6	50.3	50.0	49.6	49.3	49.0	48.7	48.3	48.0	47.7

<i>l</i>	^c 1.82	^c 1.84	^c 1.86	^c 1.88	^c 1.90	^c 1.92	^c 1.94	^c 1.96	^c 1.98	^c 2.00	^c 2.05	^c 2.10	^c 2.15	^c 2.20	^c 2.25	^c 2.30
0°	28.8	28.5	28.3	28.0	27.8	27.5	27.3	27.0	26.8	26.6	26.0	25.5	24.9	24.4	24.0	23.5
10	29.2	28.9	28.6	28.4	28.1	27.9	27.6	27.4	27.2	26.9	26.4	25.8	25.3	24.8	24.3	23.8
15	29.6	29.4	29.1	28.8	28.6	28.3	28.1	27.8	27.6	27.4	26.8	26.2	25.7	25.2	24.7	24.2
20	30.3	30.0	29.8	29.5	29.3	29.0	28.7	28.5	28.3	28.0	27.4	26.9	26.3	25.8	25.3	24.8
24	31.0	30.7	30.5	30.2	29.9	29.7	29.4	29.2	29.0	28.7	28.1	27.5	27.0	26.5	25.9	25.5
28	31.9	31.6	31.3	31.1	30.8	30.5	30.3	30.0	29.8	29.5	28.9	28.3	27.8	27.2	26.7	26.2
30	32.4	32.1	31.8	31.6	31.3	31.0	30.8	30.5	30.2	30.0	29.4	28.8	28.2	27.7	27.2	26.7
32	32.9	32.7	32.4	32.1	31.8	31.6	31.3	31.0	30.8	30.5	29.9	29.3	28.7	28.2	27.7	27.1
34	33.5	33.2	33.0	32.7	32.4	32.1	31.9	31.6	31.4	31.1	30.5	29.9	29.3	28.7	28.2	27.7
36	34.2	33.9	33.6	33.3	33.0	32.8	32.5	32.2	32.0	31.7	31.1	30.5	29.9	29.3	28.8	28.3
38	34.9	34.6	34.3	34.0	33.7	33.5	33.2	32.9	32.7	32.4	31.8	31.1	30.6	30.0	29.4	28.9
40	35.7	35.4	35.1	34.8	34.5	34.2	33.9	33.7	33.4	33.1	32.5	31.9	31.3	30.7	30.1	29.6
42	36.5	36.2	35.9	35.6	35.3	35.0	34.7	34.5	34.2	33.9	33.3	32.7	32.0	31.5	30.9	30.3
43	36.9	36.6	36.3	36.0	35.7	35.5	35.2	34.9	34.6	34.4	33.7	33.1	32.5	31.9	31.3	30.7
44	37.4	37.1	36.8	36.5	36.2	35.9	35.6	35.3	35.1	34.8	34.1	33.5	32.9	32.3	31.7	31.1
45	37.8	37.5	37.2	37.0	36.7	36.4	36.1	35.8	35.5	35.3	34.6	34.0	33.3	32.7	32.2	31.6
46	38.3	38.0	37.7	37.5	37.2	36.9	36.6	36.3	36.0	35.7	35.1	34.4	33.8	33.2	32.6	32.0
47	38.9	38.6	38.2	38.0	37.7	37.4	37.1	36.8	36.5	36.2	35.6	34.9	34.3	33.7	33.1	32.5
48	39.4	39.1	38.8	38.5	38.2	37.9	37.6	37.3	37.0	36.8	36.1	35.4	34.8	34.2	33.6	33.0
49	39.9	39.6	39.3	39.0	38.7	38.4	38.2	37.9	37.6	37.3	36.6	36.0	35.3	34.7	34.1	33.5
50	40.5	40.2	39.9	39.6	39.3	39.0	38.7	38.4	38.2	37.9	37.2	36.5	35.9	35.3	34.7	34.1
51	41.1	40.8	40.5	40.2	39.9	39.6	39.3	39.0	38.8	38.5	37.8	37.1	36.5	35.8	35.2	34.6
52	41.7	41.4	41.1	40.8	40.5	40.2	39.9	39.6	39.4	39.1	38.4	37.7	37.1	36.4	35.8	35.2
53	42.4	42.1	41.8	41.5	41.2	40.9	40.6	40.3	40.0	39.7	39.0	38.4	37.7	37.1	36.4	35.8
54	43.1	42.8	42.4	42.1	41.8	41.5	41.2	41.0	40.7	40.4	39.7	39.0	38.4	37.7	37.1	36.5
55	43.8	43.5	43.1	42.8	42.5	42.2	41.9	41.7	41.4	41.1	40.4	39.7	39.0	38.4	37.8	37.2
56	44.5	44.2	43.9	43.6	43.3	43.0	42.7	42.4	42.1	41.8	41.1	40.4	39.8	39.1	38.5	37.9
57	45.2	44.9	44.6	44.3	44.0	43.7	43.4	43.1	42.8	42.6	41.8	41.2	40.5	39.8	39.2	38.6
58	46.0	45.7	45.4	45.1	44.8	44.5	44.2	43.9	43.6	43.4	42.6	42.0	41.3	40.6	40.0	39.4
59	46.9	46.5	46.2	45.9	45.6	45.3	45.0	44.7	44.4	44.2	43.4	42.8	42.1	41.4	40.8	40.2
60	47.7	47.4	47.1	46.8	46.5	46.2	45.9	45.6	45.3	45.0	44.3	43.6	42.9	42.3	41.6	41.0

c positivo, Z do mesmo nome da l
c negativo, Z de contrario » » l

c positive, Z of same name as l
c negative, Z of contrary » of l

Taboa XIV

C

Table XIV

<i>l</i>	c 2.30	c 2.35	c 2.40	c 2.45	c 2.50	c 2.55	c 2.60	c 2.65	c 2.70	c 2.75	c 2.80	c 2.85	c 2.90	c 2.95	c 3.00	c 3.05
0°	23.5	23.1	22.6	22.2	21.8	21.4	21.0	20.7	20.3	20.0	19.7	19.3	19.0	18.7	18.4	18.2
10	23.8	23.4	22.9	22.5	22.1	21.7	21.3	21.0	20.6	20.3	19.9	19.6	19.3	19.0	18.7	18.4
15	24.2	23.8	23.3	22.9	22.5	22.1	21.7	21.3	21.0	20.6	20.3	20.0	19.6	19.3	19.0	18.7
20	24.8	24.4	23.9	23.5	23.1	22.7	22.3	21.9	21.5	21.2	20.8	20.5	20.2	19.8	19.5	19.2
24	25.5	25.0	24.5	24.1	23.6	23.2	22.8	22.4	22.1	21.7	21.4	21.0	20.7	20.4	20.0	19.7
28	26.2	25.7	25.3	24.8	24.4	23.9	23.5	23.1	22.8	22.4	22.0	21.7	21.3	21.0	20.7	20.4
30	26.7	26.2	25.7	25.2	24.8	24.4	23.9	23.5	23.2	22.8	22.4	22.1	21.7	21.4	21.1	20.7
32	27.1	26.6	26.2	25.7	25.3	24.8	24.4	24.0	23.6	23.2	22.8	22.5	22.1	21.8	21.5	21.1
34	27.7	27.2	26.7	26.2	25.8	25.3	24.9	24.5	24.1	23.7	23.3	22.9	22.6	22.2	21.9	21.6
36	28.3	27.7	27.3	26.8	26.3	25.9	25.4	25.0	24.6	24.2	23.8	23.4	23.1	22.7	22.4	22.1
38	28.9	28.4	27.9	27.4	26.9	26.5	26.0	25.6	25.2	24.8	24.4	24.0	23.6	23.3	22.9	22.6
40	29.6	29.1	28.5	28.0	27.6	27.1	26.7	26.2	25.8	25.4	25.0	24.6	24.2	23.9	23.5	23.2
42	30.3	29.8	29.3	28.8	28.3	27.8	27.4	26.9	26.5	26.1	25.7	25.3	24.9	24.5	24.2	23.9
43	30.7	30.2	29.7	29.2	28.7	28.2	27.7	27.3	26.9	26.4	26.0	25.6	25.2	24.9	24.5	24.1
44	31.1	30.6	30.1	29.6	29.1	28.6	28.1	27.7	27.2	26.8	26.4	26.0	25.6	25.2	24.9	24.5
45	31.6	31.0	30.5	30.0	29.5	29.0	28.5	28.1	27.6	27.2	26.8	26.4	26.0	25.6	25.2	24.9
46	32.0	31.5	31.0	30.4	29.9	29.4	29.0	28.5	28.1	27.6	27.2	26.8	26.4	26.0	25.6	25.3
47	32.5	32.0	31.4	30.9	30.4	29.9	29.4	29.0	28.5	28.1	27.6	27.2	26.8	26.4	26.0	25.7
48	33.0	32.5	31.9	31.4	30.9	30.4	29.9	29.4	29.0	28.5	28.1	27.7	27.3	26.9	26.5	26.1
49	33.5	33.0	32.4	31.9	31.4	30.9	30.4	29.9	29.5	29.0	28.6	28.1	27.7	27.3	26.9	26.6
50	34.1	33.5	33.0	32.4	31.9	31.4	30.9	30.4	30.0	29.5	29.1	28.6	28.2	27.8	27.4	27.0
51	34.6	34.1	33.5	33.0	32.4	31.9	31.4	30.9	30.5	30.0	29.6	29.1	28.7	28.3	27.9	27.5
52	35.2	34.7	34.1	33.5	33.0	32.5	32.0	31.5	31.0	30.6	30.1	29.7	29.3	28.8	28.4	28.0
53	35.8	35.3	34.7	34.1	33.6	33.1	32.6	32.1	31.6	31.1	30.7	30.2	29.8	29.4	29.0	28.6
54	36.5	35.9	35.3	34.8	34.2	33.7	33.2	32.7	32.2	31.7	31.3	30.8	30.4	30.0	29.6	29.2
55	37.2	36.6	36.0	35.4	34.9	34.4	33.8	33.3	32.9	32.4	31.9	31.5	31.0	30.6	30.2	29.8
56	37.9	37.3	36.7	36.1	35.6	35.0	34.5	34.0	33.5	33.0	32.6	32.1	31.7	31.2	30.8	30.4
57	38.6	38.0	37.4	36.8	36.3	35.8	35.2	34.7	34.2	33.7	33.3	32.8	32.4	31.9	31.5	31.0
58	39.4	38.8	38.2	37.6	37.0	36.5	36.0	35.5	35.0	34.5	34.0	33.5	33.1	32.6	32.2	31.7
59	40.2	39.6	39.0	38.4	37.8	37.3	36.8	36.2	35.7	35.2	34.7	34.3	33.8	33.4	32.9	32.5
60	41.0	40.4	39.8	39.2	38.7	38.1	37.6	37.0	36.5	36.0	35.5	35.1	34.6	34.1	33.7	33.3

<i>l</i>	c 3.05	c 3.10	c 3.20	c 3.30	c 3.40	c 3.50	c 3.60	c 3.70	c 3.80	c 3.90	c 4.00	c 4.10	c 4.20	c 4.30	c 4.40	c 4.50
0°	18.2	17.9	17.4	16.9	16.4	15.9	15.5	15.1	14.7	14.4	14.0	13.7	13.4	13.1	12.8	12.5
10	18.4	18.1	17.6	17.1	16.6	16.2	15.8	15.4	15.0	14.6	14.2	13.9	13.6	13.3	13.0	12.7
15	18.7	18.5	17.9	17.4	16.9	16.5	16.0	15.6	15.2	14.9	14.5	14.2	13.8	13.5	13.2	13.0
20	19.2	18.9	18.4	17.9	17.4	16.9	16.5	16.0	15.6	15.3	14.9	14.6	14.2	13.9	13.6	13.3
24	19.7	19.4	18.9	18.4	17.8	17.4	16.9	16.5	16.1	15.7	15.3	14.9	14.6	14.3	14.0	13.7
28	20.4	20.1	19.5	18.9	18.4	17.9	17.5	17.0	16.6	16.2	15.8	15.4	15.1	14.8	14.4	14.1
30	20.7	20.4	19.8	19.3	18.8	18.3	17.8	17.3	16.9	16.5	16.1	15.7	15.4	15.0	14.7	14.4
32	21.1	20.8	20.2	19.7	19.1	18.6	18.1	17.7	17.2	16.8	16.4	16.0	15.7	15.3	15.0	14.7
34	21.6	21.3	20.7	20.1	19.5	19.0	18.5	18.1	17.6	17.2	16.8	16.4	16.0	15.7	15.3	15.0
36	22.1	21.7	21.1	20.5	20.0	19.5	19.0	18.5	18.0	17.6	17.2	16.8	16.4	16.1	15.7	15.4
38	22.6	22.3	21.6	21.0	20.5	19.9	19.4	18.9	18.5	18.0	17.6	17.2	16.8	16.5	16.1	15.8
40	23.2	22.8	22.2	21.6	21.0	20.5	19.9	19.4	19.0	18.5	18.1	17.7	17.3	16.9	16.5	16.2
42	23.9	23.5	22.8	22.2	21.6	21.0	20.5	20.0	19.5	19.1	18.6	18.2	17.8	17.4	17.0	16.6
43	24.1	23.8	23.1	22.5	21.9	21.3	20.8	20.3	19.8	19.3	18.9	18.4	18.0	17.6	17.3	16.9
44	24.5	24.2	23.5	22.8	22.2	21.7	21.1	20.6	20.1	19.6	19.2	18.7	18.3	17.9	17.5	17.2
45	24.9	24.5	23.8	23.2	22.6	22.0	21.4	20.9	20.4	19.9	19.5	19.0	18.6	18.2	17.8	17.4
46	25.3	24.9	24.2	23.6	22.9	22.4	21.8	21.3	20.7	20.3	19.8	19.3	18.9	18.5	18.1	17.7
47	25.7	25.3	24.6	24.0	23.3	22.7	22.2	21.6	21.1	20.6	20.1	19.7	19.2	18.8	18.4	18.0
48	26.1	25.7	25.0	24.4	23.7	23.1	22.5	22.0	21.5	21.0	20.5	20.0	19.6	19.2	18.8	18.4
49	26.6	26.2	25.5	24.8	24.1	23.5	22.9	22.4	21.9	21.4	20.9	20.4	19.9	19.5	19.1	18.7
50	27.0	26.6	25.9	25.2	24.6	24.0	23.4	22.8	22.3	21.8	21.3	20.8	20.3	19.9	19.5	19.1
51	27.5	27.1	26.4	25.7	25.0	24.4	23.8	23.2	22.7	22.2	21.7	21.2	20.7	20.3	19.9	19.5
52	28.0	27.7	26.9	26.2	25.5	24.9	24.3	23.7	23.1	22.6	22.1	21.6	21.1	20.7	20.3	19.9
53	28.6	28.2	27.4	26.7	26.0	25.4	24.8	24.2	23.6	23.1	22.6	22.1	21.6	21.1	20.7	20.3
54	29.2	28.8	28.0	27.3	26.6	25.9	25.3	24.7	24.1	23.6	23.1	22.6	22.1	21.6	21.1	20.7
55	29.8	29.4	28.6	27.8	27.1	26.5	25.8	25.2	24.6	24.1	23.6	23.1	22.6	22.1	21.6	21.2
56	30.4	30.0	29.2	28.4	27.7	27.1	26.4	25.8	25.2	24.7	24.1	23.6	23.1	22.6	22.1	21.7
57	31.0	30.6	29.8	29.1	28.4	27.7	27.0	26.4	25.8	25.3	24.7	24.1	23.6	23.1	22.7	22.2
58	31.7	31.3	30.5	29.8	29.0	28.3	27.7	27.0	26.4	25.9	25.3	24.7	24.2	23.7	23.2	22.7
59	32.5	32.1	31.2	30.5	29.7	29.0	28.4	27.7	27.1	26.5	25.9	25.3	24.8	24.3	23.8	23.3
60	33.3	32.8	32.0	31.2	30.5	29.7	29.1	28.4	27.8	27.2	26.6	26.0	25.5	24.9	24.4	24.0

c positivo, Z do mesmo nome de l
c negativo, Z de contrario » » l

c positive, Z of same name as l
c negative, Z contrary » of l

Taboa XIV

C

Table XIV

<i>l</i>	c 4.50	c 4.60	c 4.70	c 4.80	c 4.90	c 5.00	c 5.20	c 5.40	c 5.60	c 5.80	c 6.00	c 6.40	c 6.80	c 7.20	c 7.60	c 8.00
0°	12.5	12.3	12.0	11.8	11.5	11.3	10.9	10.5	10.1	9.8	9.5	8.9	8.4	7.9	7.5	7.1
10	12.7	12.4	12.2	11.9	11.7	11.5	11.0	10.6	10.3	9.9	9.6	9.0	8.5	8.0	7.6	7.2
15	13.0	12.7	12.4	12.2	11.9	11.7	11.3	10.9	10.5	10.1	9.8	9.2	8.7	8.2	7.8	7.4
20	13.3	13.0	12.8	12.5	12.3	12.0	11.6	11.1	10.8	10.4	10.1	9.4	8.9	8.4	8.0	7.6
24	13.7	13.4	13.1	12.8	12.6	12.3	11.9	11.5	11.1	10.7	10.3	9.7	9.1	8.6	8.2	7.8
28	14.1	13.8	13.5	13.3	13.0	12.8	12.3	11.8	11.4	11.0	10.7	10.0	9.5	8.9	8.5	8.1
30	14.4	14.1	13.8	13.5	13.3	13.0	12.5	12.1	11.7	11.3	10.9	10.2	9.6	9.1	8.6	8.2
32	14.7	14.4	14.1	13.8	13.5	13.3	12.8	12.3	11.9	11.5	11.1	10.4	9.8	9.3	8.8	8.4
34	15.0	14.7	14.4	14.1	13.8	13.6	13.1	12.6	12.2	11.7	11.4	10.7	10.1	9.5	9.0	8.6
36	15.4	15.0	14.7	14.4	14.2	13.9	13.4	12.9	12.4	12.0	11.6	10.9	10.3	9.7	9.2	8.8
38	15.8	15.4	15.1	14.8	14.5	14.2	13.7	13.2	12.8	12.3	11.9	11.2	10.6	10.0	9.5	9.0
40	16.2	15.8	15.5	15.2	14.9	14.6	14.1	13.6	13.1	12.7	12.3	11.5	10.9	10.3	9.7	9.3
42	16.6	16.3	16.0	15.7	15.4	15.1	14.5	14.0	13.5	13.1	12.6	11.9	11.2	10.6	10.0	9.5
43	16.9	16.6	16.2	15.9	15.6	15.3	14.7	14.2	13.7	13.3	12.8	12.1	11.4	10.8	10.2	9.7
44	17.2	16.8	16.5	16.2	15.8	15.5	15.0	14.4	13.9	13.5	13.0	12.3	11.6	10.9	10.4	9.9
45	17.4	17.1	16.7	16.4	16.1	15.8	15.2	14.7	14.2	13.7	13.3	12.5	11.7	11.1	10.5	10.0
46	17.7	17.4	17.0	16.7	16.4	16.1	15.5	14.9	14.4	13.9	13.5	12.7	12.0	11.3	10.7	10.2
47	18.0	17.7	17.3	17.0	16.7	16.3	15.7	15.2	14.7	14.2	13.7	12.9	12.2	11.5	10.9	10.4
48	18.4	18.0	17.6	17.3	17.0	16.6	16.0	15.5	14.9	14.4	14.0	13.1	12.4	11.7	11.1	10.6
49	18.7	18.3	18.0	17.6	17.3	17.0	16.3	15.8	15.2	14.7	14.3	13.4	12.6	12.0	11.3	10.8
50	19.1	18.7	18.3	18.0	17.6	17.3	16.7	16.1	15.5	15.0	14.5	13.7	12.9	12.2	11.6	11.0
51	19.5	19.1	18.7	18.3	18.0	17.6	17.0	16.4	15.8	15.3	14.8	13.9	13.2	12.4	11.8	11.2
52	19.9	19.5	19.1	18.7	18.4	18.0	17.3	16.7	16.2	15.6	15.1	14.2	13.4	12.7	12.1	11.5
53	20.3	19.9	19.5	19.1	18.8	18.4	17.7	17.1	16.5	16.0	15.5	14.6	13.7	13.0	12.3	11.7
54	20.7	20.3	19.9	19.5	19.2	18.8	18.1	17.5	16.9	16.3	15.8	14.9	14.0	13.3	12.6	12.0
55	21.2	20.8	20.4	20.0	19.6	19.2	18.5	17.9	17.3	16.7	16.2	15.2	14.4	13.6	12.9	12.3
56	21.7	21.3	20.8	20.4	20.1	19.7	19.0	18.3	17.7	17.1	16.6	15.6	14.7	13.9	13.2	12.6
57	22.2	21.8	21.3	20.9	20.6	20.2	19.4	18.8	18.2	17.6	17.0	16.0	15.1	14.3	13.6	12.9
58	22.7	22.3	21.9	21.5	21.1	20.7	19.9	19.3	18.6	18.0	17.5	16.4	15.5	14.7	13.9	13.3
59	23.3	22.9	22.5	22.0	21.6	21.2	20.5	19.8	19.1	18.5	17.9	16.9	15.9	15.1	14.3	13.6
60	24.0	23.5	23.1	22.6	22.2	21.8	21.0	20.3	19.7	19.0	18.4	17.4	16.4	15.5	14.7	14.0

<i>l</i>	c 8.00	c 8.50	c 9.00	c 9.50	c 10.0	c 12.0	c 14.0	c 16.0	c 18.0	c 20.0	c 26.0	c 35.0	c 40.0	c 50.0	c 70.0	c 100.
0°	7.1	6.7	6.3	6.0	5.7	4.8	4.1	3.6	3.2	2.9	2.2	1.6	1.4	1.1	0.8	0.6
10	7.2	6.8	6.4	6.1	5.8	4.8	4.2	3.6	3.2	2.9	2.2	1.7	1.5	1.2	0.8	0.6
15	7.4	6.9	6.6	6.2	5.9	4.9	4.2	3.7	3.3	3.0	2.3	1.7	1.5	1.2	0.8	0.6
20	7.6	7.1	6.7	6.4	6.1	5.1	4.4	3.8	3.4	3.0	2.3	1.7	1.5	1.2	0.9	0.6
24	7.8	7.3	6.9	6.6	6.2	5.2	4.5	3.9	3.5	3.1	2.4	1.8	1.6	1.3	0.9	0.6
28	8.1	7.6	7.2	6.8	6.5	5.4	4.6	4.1	3.6	3.2	2.5	1.9	1.6	1.3	0.9	0.6
30	8.2	7.7	7.3	6.9	6.6	5.5	4.7	4.1	3.7	3.3	2.5	1.9	1.7	1.3	0.9	0.7
32	8.4	7.9	7.5	7.1	6.7	5.6	4.8	4.2	3.8	3.4	2.6	1.9	1.7	1.4	1.0	0.7
34	8.6	8.1	7.6	7.2	6.9	5.7	4.9	4.3	3.9	3.5	2.7	2.0	1.7	1.4	1.0	0.7
36	8.8	8.3	7.8	7.4	7.0	5.9	5.0	4.4	3.9	3.5	2.7	2.0	1.8	1.4	1.0	0.7
38	9.0	8.5	8.0	7.6	7.2	6.0	5.2	4.5	4.0	3.6	2.8	2.1	1.8	1.5	1.0	0.7
40	9.3	8.7	8.3	7.8	7.4	6.2	5.3	4.7	4.1	3.7	2.9	2.1	1.9	1.5	1.1	0.7
42	9.5	9.0	8.5	8.1	7.7	6.4	5.5	4.8	4.3	3.8	3.0	2.2	1.9	1.5	1.1	0.8
43	9.7	9.1	8.6	8.2	7.8	6.5	5.6	4.9	4.4	3.9	3.0	2.2	2.0	1.6	1.1	0.8
44	9.9	9.3	8.8	8.3	7.9	6.6	5.7	5.0	4.4	4.0	3.1	2.3	2.0	1.6	1.1	0.8
45	10.0	9.4	8.9	8.5	8.0	6.7	5.8	5.1	4.5	4.0	3.1	2.3	2.0	1.6	1.2	0.8
46	10.2	9.6	9.1	8.6	8.2	6.8	5.9	5.2	4.6	4.1	3.2	2.4	2.1	1.6	1.2	0.8
47	10.4	9.8	9.3	8.8	8.3	7.0	6.0	5.3	4.7	4.2	3.2	2.4	2.1	1.7	1.2	0.8
48	10.6	10.0	9.4	8.9	8.5	7.1	6.1	5.4	4.7	4.3	3.3	2.4	2.1	1.7	1.2	0.9
49	10.8	10.2	9.6	9.1	8.7	7.2	6.2	5.5	4.8	4.4	3.4	2.5	2.2	1.7	1.2	0.9
50	11.0	10.4	9.8	9.3	8.8	7.4	6.3	5.6	4.9	4.4	3.4	2.5	2.2	1.8	1.3	0.9
51	11.2	10.7	10.0	9.5	9.0	7.5	6.5	5.7	5.0	4.5	3.5	2.6	2.3	1.8	1.3	0.9
52	11.5	10.8	10.2	9.7	9.2	7.7	6.6	5.8	5.2	4.6	3.6	2.7	2.3	1.9	1.3	0.9
53	11.7	11.1	10.5	9.9	9.4	7.9	6.8	5.9	5.3	4.7	3.7	2.7	2.4	1.9	1.4	1.0
54	12.0	11.3	10.7	10.2	9.7	8.1	7.0	6.1	5.4	4.9	3.7	2.8	2.4	1.9	1.4	1.0
55	12.3	11.6	11.0	10.4	9.9	8.3	7.1	6.2	5.6	5.0	3.8	2.9	2.5	2.0	1.5	1.0
56	12.6	11.9	11.2	10.7	10.1	8.5	7.3	6.4	5.7	5.1	3.9	2.9	2.6	2.0	1.5	1.0
57	12.9	12.2	11.5	10.9	10.4	8.7	7.5	6.6	5.8	5.2	4.0	3.0	2.6	2.1	1.5	1.1
58	13.3	12.5	11.8	11.2	10.7	8.9	7.7	6.7	6.0	5.4	4.2	3.1	2.7	2.2	1.5	1.1
59	13.6	12.9	12.2	11.6	11.0	9.2	7.9	6.9	6.2	5.5	4.3	3.2	2.8	2.2	1.6	1.1
60	14.0	13.2	12.5	11.9	11.3	9.5	8.1	7.1	6.3	5.7	4.4	3.3	2.9	2.3	1.6	1.1

c positivo, Z do mesmo nome de l
c negativo, Z do contrario » » l

c positive, Z of same name as l
c negative, Z contrary » of l

Taboa XV

Diferença em Altura

Diff. in Altitude

Table XV

$\Delta \hat{\delta}$	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'
0.4	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6
0.8	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	0.9	1.0	1.0	1.1	1.1
1.2	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.0	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7
1.6	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2
2.0	0.1	0.3	0.4	0.5	0.7	0.8	0.9	1.1	1.2	1.3	1.5	1.6	1.7	1.9	2.0	2.1	2.3	2.4	2.5	2.7	2.8
2.4	0.2	0.3	0.5	0.6	0.8	1.0	1.1	1.3	1.4	1.6	1.8	1.9	2.1	2.2	2.4	2.6	2.7	2.9	3.0	3.2	3.4
2.8	0.2	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.5	3.7	3.9
3.2	0.2	0.4	0.6	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.1	4.3	4.5
3.6	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.2	2.4	2.6	2.9	3.1	3.4	3.6	3.8	4.1	4.3	4.6	4.8	5.0
4.0	0.3	0.5	0.8	1.1	1.3	1.6	1.9	2.1	2.4	2.7	3.0	3.2	3.5	3.7	4.0	4.3	4.5	4.8	5.1	5.3	5.6
4.4	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.3	2.6	2.9	3.2	3.5	3.8	4.1	4.4	4.7	5.0	5.3	5.6	5.9	6.2
4.8	0.3	0.6	1.0	1.3	1.6	1.9	2.2	2.6	2.9	3.2	3.5	3.8	4.2	4.5	4.8	5.1	5.4	5.8	6.1	6.4	6.7
5.2	0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.8	3.1	3.5	3.8	4.2	4.5	4.9	5.2	5.5	5.9	6.2	6.6	6.9	7.3
5.6	0.4	0.7	1.1	1.5	1.9	2.2	2.6	3.0	3.4	3.7	4.1	4.5	4.9	5.2	5.6	6.0	6.3	6.7	7.1	7.5	7.8
6.0	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.0	4.4	4.8	5.2	5.6	6.0	6.4	6.8	7.2	7.6	8.0	8.4
6.4	0.4	0.9	1.3	1.7	2.1	2.6	3.0	3.4	3.8	4.3	4.7	5.1	5.5	6.0	6.4	6.8	7.3	7.7	8.1	8.5	9.0
6.8	0.5	0.9	1.4	1.8	2.3	2.7	3.2	3.6	4.1	4.5	5.0	5.4	6.0	6.3	6.8	7.3	7.7	8.2	8.6	9.1	9.5
7.2	0.5	1.0	1.4	1.9	2.4	2.9	3.4	3.8	4.3	4.8	5.3	5.8	6.2	6.7	7.2	7.7	8.2	8.6	9.1	9.6	10.1
7.6	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.1	4.6	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.6	9.1	9.6	10.1	10.6
8.0	0.5	1.1	1.6	2.1	2.7	3.2	3.7	4.3	4.8	5.3	5.9	6.4	7.0	7.5	8.0	8.5	9.1	9.6	10.1	10.7	11.2
8.4	0.6	1.1	1.7	2.2	2.8	3.4	4.0	4.5	5.0	5.6	6.2	6.7	7.3	7.8	8.4	9.0	9.5	10.1	10.6	11.2	11.8
8.8	0.6	1.2	1.8	2.3	2.9	3.5	4.1	4.7	5.3	5.9	6.5	7.0	7.6	8.2	8.8	9.4	10.0	10.6	11.1	11.7	12.3
9.2	0.6	1.2	1.8	2.5	3.1	3.7	4.3	4.9	5.5	6.1	6.7	7.4	8.0	8.6	9.2	9.8	10.4	11.0	11.7	12.3	12.9
9.6	0.6	1.3	1.9	2.6	3.2	3.8	4.5	5.1	5.8	6.4	7.0	7.7	8.3	9.0	9.6	10.2	10.9	11.5	12.2	12.8	13.4
10.0	0.7	1.3	2.0	2.7	3.3	4.0	4.7	5.3	6.0	6.7	7.3	8.0	8.7	9.3	10.0	10.7	11.3	12.0	12.7	13.3	14.0
10.4	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.5	6.2	6.9	7.6	8.3	9.0	9.7	10.4	11.1	11.8	12.5	13.2	13.9	14.6
10.8	0.7	1.4	2.2	2.9	3.6	4.3	5.0	5.8	6.5	7.2	7.9	8.6	9.4	10.1	10.8	11.5	12.2	13.0	13.7	14.4	15.1
11.2	0.7	1.5	2.2	3.0	3.7	4.5	5.2	6.0	6.7	7.5	8.2	9.0	9.7	10.5	11.2	11.9	12.7	13.4	14.2	14.9	15.7
11.6	0.8	1.5	2.3	3.1	3.9	4.6	5.4	6.2	7.0	7.7	8.5	9.3	10.1	10.8	11.6	12.4	13.1	13.9	14.7	15.5	16.2
12.0	0.8	1.6	2.4	3.2	4.0	4.8	5.6	6.4	7.2	8.0	8.8	9.6	10.4	11.2	12.0	12.8	13.6	14.4	15.2	16.0	16.8
12.4	0.8	1.7	2.5	3.3	4.1	5.0	5.8	6.6	7.4	8.3	9.1	9.9	10.7	11.6	12.4	13.2	14.0	14.9	15.7	16.5	17.4
12.8	0.9	1.7	2.6	3.4	4.3	5.1	6.0	6.8	7.7	8.5	9.4	10.2	11.1	11.9	12.8	13.6	14.5	15.4	16.2	17.1	17.9
13.2	0.9	1.8	2.6	3.5	4.4	5.3	6.2	7.0	7.9	8.8	9.7	10.6	11.4	12.3	13.2	14.1	15.0	15.8	16.7	17.6	18.5
13.6	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.3	8.2	9.1	10.0	10.9	11.8	12.7	13.6	14.5	15.4	16.3	17.2	18.1	19.0
14.0	0.9	1.9	2.8	3.7	4.7	5.6	6.5	7.5	8.4	9.3	10.3	11.2	12.1	13.1	14.0	14.9	15.9	16.8	17.7	18.7	19.6
14.4	1.0	1.9	2.9	3.8	4.8	5.8	6.7	7.7	8.6	9.6	10.6	11.5	12.5	13.4	14.4	15.4	16.3	17.3	18.2	19.2	20.2
14.8	1.0	2.0	3.0	3.9	4.9	5.9	6.9	7.9	8.9	9.9	10.9	11.8	12.8	13.8	14.8	15.8	16.8	17.8	18.7	19.7	20.7
15.2	1.0	2.0	3.0	4.1	5.1	6.1	7.1	8.1	9.1	10.1	11.1	12.2	13.2	14.2	15.2	16.2	17.2	18.2	19.2	20.3	21.3
15.6	1.0	2.1	3.1	4.2	5.2	6.2	7.3	8.3	9.4	10.4	11.4	12.5	13.5	14.6	15.6	16.6	17.7	18.7	19.8	20.8	21.8
16.0	1.1	2.1	3.2	4.3	5.3	6.4	7.5	8.5	9.6	10.7	11.7	12.8	13.9	14.9	16.0	17.1	18.1	19.2	20.3	21.3	22.4

Correcção para a hora da passagem da Lua no meridiano do observador

Correction to the time of the Moon's Meridian passage at Greenwich, to obtain the time of its passage over the observer

Taboa XVI Long. W correc. add.(+) Long. E corr. subtrac. (-) Table XVI

Differ. em 24 H	10"	20"	30"	40"	50"	60"	Longitude			100"	110"	120"	130"	140"	150"	160"	170"	180"
42 ^m	1 ^m	2 ^m	3 ^m	5 ^m	6 ^m	7 ^m	8 ^m	9 ^m	10 ^m	11 ^m	13 ^m	14 ^m	15 ^m	16 ^m	17 ^m	18 ^m	19 ^m	20 ^m
48	1	3	4	5	7	8	9	10	12	13	14	16	17	18	19	21	22	23
54	1	3	4	6	7	9	10	12	13	15	16	17	19	20	22	23	25	26
60	2	3	5	6	8	10	11	13	14	16	18	19	21	22	24	26	27	29
66	2	4	5	7	9	11	12	14	16	18	19	21	23	25	26	28	30	32

Correcção aditiva á hora v. do ocaso verdadeiro do Sol

Taboa XVII

Additive correction to time of the Sun's true setting

Table XVII

$\hat{\delta} \backslash \ell$	0°	10°	20°	30°	40°	45°	50°	55°	60°	$\hat{\delta} \backslash \ell$	0°	10°	20°	30°	40°	45°	50°	55°	60°
0°	4 ^m	4 ^m	4 ^m	4 ^m	5 ^m	5 ^m	6 ^m	7 ^m	7 ^m	16°	4 ^m	4 ^m	4 ^m	5 ^m	5 ^m	6 ^m	6 ^m	7 ^m	9 ^m
6	4	4	4	4	5	5	6	7	8	20	4	4	4	5	5	6	7	8	10
12	4	4	4	4	5	5	6	7	8	24	4	4	4	5	6	6	7	9	13

Conversão de tempo em arco e vice-versa
Conversion of time into arc and vice-versa

Taboa XVIII

Table XVIII

m	0H	1H	2H	3H	4H	5H	6H	7H	8H	9H	10H	11H	s	0.0
0	0" 0'	15" 0'	30" 0'	45" 0'	60" 0'	75" 0'	90" 0'	105" 0'	120" 0'	135" 0'	150" 0'	165" 0'	0	0.0
1	15	15	15	15	15	15	15	15	15	15	15	15	1	0.2
2	30	30	30	30	30	30	30	30	30	30	30	30	2	0.5
3	45	45	45	45	45	45	45	45	45	45	45	45	3	0.7
4	1" 0'	16" 0'	31" 0'	46" 0'	61" 0'	76" 0'	91" 0'	106" 0'	121" 0'	136" 0'	151" 0'	166" 0'	4	1.0
5	15	15	15	15	15	15	15	15	15	15	15	15	5	1.2
6	30	30	30	30	30	30	30	30	30	30	30	30	6	1.5
7	45	45	45	45	45	45	45	45	45	45	45	45	7	1.7
8	2" 0'	17" 0'	32" 0'	47" 0'	62" 0'	77" 0'	92" 0'	107" 0'	122" 0'	137" 0'	152" 0'	167" 0'	8	2.0
9	15	15	15	15	15	15	15	15	15	15	15	15	9	2.2
10	30	30	30	30	30	30	30	30	30	30	30	30	10	2.5
11	45	45	45	45	45	45	45	45	45	45	45	45	11	2.7
12	3" 0'	18" 0'	33" 0'	48" 0'	63" 0'	78" 0'	93" 0'	108" 0'	123" 0'	138" 0'	153" 0'	168" 0'	12	3.0
13	15	15	15	15	15	15	15	15	15	15	15	15	13	3.2
14	30	30	30	30	30	30	30	30	30	30	30	30	14	3.5
15	45	45	45	45	45	45	45	45	45	45	45	45	15	3.7
16	4" 0'	19" 0'	34" 0'	49" 0'	64" 0'	79" 0'	94" 0'	109" 0'	124" 0'	139" 0'	154" 0'	169" 0'	16	4.0
17	15	15	15	15	15	15	15	15	15	15	15	15	17	4.2
18	30	30	30	30	30	30	30	30	30	30	30	30	18	4.5
19	45	45	45	45	45	45	45	45	45	45	45	45	19	4.7
20	5" 0'	20" 0'	35" 0'	50" 0'	65" 0'	80" 0'	95" 0'	110" 0'	125" 0'	140" 0'	155" 0'	170" 0'	20	5.0
21	15	15	15	15	15	15	15	15	15	15	15	15	21	5.2
22	30	30	30	30	30	30	30	30	30	30	30	30	22	5.5
23	45	45	45	45	45	45	45	45	45	45	45	45	23	5.7
24	6" 0'	21" 0'	36" 0'	51" 0'	66" 0'	81" 0'	96" 0'	111" 0'	126" 0'	141" 0'	156" 0'	171" 0'	24	6.0
25	15	15	15	15	15	15	15	15	15	15	15	15	25	6.2
26	30	30	30	30	30	30	30	30	30	30	30	30	26	6.5
27	45	45	45	45	45	45	45	45	45	45	45	45	27	6.7
28	7" 0'	22" 0'	37" 0'	52" 0'	67" 0'	82" 0'	97" 0'	112" 0'	127" 0'	142" 0'	157" 0'	172" 0'	28	7.0
29	15	15	15	15	15	15	15	15	15	15	15	15	29	7.2
30	30	30	30	30	30	30	30	30	30	30	30	30	30	7.5
31	45	45	45	45	45	45	45	45	45	45	45	45	31	7.7
32	8" 0'	23" 0'	38" 0'	53" 0'	68" 0'	83" 0'	98" 0'	113" 0'	128" 0'	143" 0'	158" 0'	173" 0'	32	8.0
33	15	15	15	15	15	15	15	15	15	15	15	15	33	8.2
34	30	30	30	30	30	30	30	30	30	30	30	30	34	8.5
35	45	45	45	45	45	45	45	45	45	45	45	45	35	8.7
36	9" 0'	24" 0'	39" 0'	54" 0'	69" 0'	84" 0'	99" 0'	114" 0'	129" 0'	144" 0'	159" 0'	174" 0'	36	9.0
37	15	15	15	15	15	15	15	15	15	15	15	15	37	9.2
38	30	30	30	30	30	30	30	30	30	30	30	30	38	9.5
39	45	45	45	45	45	45	45	45	45	45	45	45	39	9.7
40	10" 0'	25" 0'	40" 0'	55" 0'	70" 0'	85" 0'	100" 0'	115" 0'	130" 0'	145" 0'	160" 0'	175" 0'	40	10.0
41	15	15	15	15	15	15	15	15	15	15	15	15	41	10.2
42	30	30	30	30	30	30	30	30	30	30	30	30	42	10.5
43	45	45	45	45	45	45	45	45	45	45	45	45	43	10.7
44	11" 0'	26" 0'	41" 0'	56" 0'	71" 0'	86" 0'	101" 0'	116" 0'	131" 0'	146" 0'	161" 0'	176" 0'	44	11.0
45	15	15	15	15	15	15	15	15	15	15	15	15	45	11.2
46	30	30	30	30	30	30	30	30	30	30	30	30	46	11.5
47	45	45	45	45	45	45	45	45	45	45	45	45	47	11.7
48	12" 0'	27" 0'	42" 0'	57" 0'	72" 0'	87" 0'	102" 0'	117" 0'	132" 0'	147" 0'	162" 0'	177" 0'	48	12.0
49	15	15	15	15	15	15	15	15	15	15	15	15	49	12.2
50	30	30	30	30	30	30	30	30	30	30	30	30	50	12.5
51	45	45	45	45	45	45	45	45	45	45	45	45	51	12.7
52	13" 0'	28" 0'	43" 0'	58" 0'	73" 0'	88" 0'	103" 0'	118" 0'	133" 0'	148" 0'	163" 0'	178" 0'	52	13.0
53	15	15	15	15	15	15	15	15	15	15	15	15	53	13.2
54	30	30	30	30	30	30	30	30	30	30	30	30	54	13.5
55	45	45	45	45	45	45	45	45	45	45	45	45	55	13.7
56	14" 0'	29" 0'	44" 0'	59" 0'	74" 0'	89" 0'	104" 0'	119" 0'	134" 0'	149" 0'	164" 0'	179" 0'	56	14.0
57	15	15	15	15	15	15	15	15	15	15	15	15	57	14.2
58	30	30	30	30	30	30	30	30	30	30	30	30	58	14.5
59	45	45	45	45	45	45	45	45	45	45	45	45	59	14.7

Seconds of time
Minutes and tenths of arc
Segundos de tempo
Minutos e decimos d'arco

